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TABLE OF CONTENTS

Author Index 2103
Key Index 2150
Subject Classification 2161
Subject Index 2197
Abbreviations of Names of Journals 2337
Journals in Translation 2360
Errata and Addenda 2363
Transliteration of Cyrillic 2369

Volume 54, Number 7, Index December 1977 Pages 2103-2369

Vol. 5

Aalton
Aande
Aarna,
Aarnes
Aarsetl
Aarts,
Aase, I
Abaffy
Abaku
141
Abarba
Abasov
Abbasc
Abbasc
Abbati
Abbott
Abd-A
477
Abd-A
901
Abdel
790
Abdou
154
Abdrah
936
Abdull
Abdull
Abdull
Abdura
360
Abdus
Abduv
Abe, K
112
Abe, K
Abe, T
Abeasis
720
Abel', I
Abel', I
Abeljaš
Abelson
127
Abesad
Abgarja
Abhyar
Abian,
128
Abi Fa
Abildga
Abiodu
Abol'ni
Abraha

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Mathematical Reviews

Vol. 54, No. 7, Index 1977 pp. 2103-2369

AUTHOR INDEX

References are to review numbers; an Errata section may be found at the end of this Index. Russian authors are listed under the transliterated spelling of Russian used by Mathematical Reviews (see table at the end of this issue). Surnames consisting of more than one part (e.g., de Barra, van Lint, etc.) are listed under the first capital letter.

Items without indicated authors are usually listed separately in the Key Index, which follows the Author Index. Collections of papers for which an editor (or editors) is named are referred to under the editor's name. They are also listed in the Key Index. A star (★) before an MR number indicates that the item is a book, while a dagger (†) indicates that reference is made to the item in the Errata section.

Reviews of articles in a collection are now indexed both by the names of the authors and, in the Key Index, by an appropriate title, which is explicitly mentioned at the end of the review of the collection as a whole; by scanning successive indexes for the title the reader can trace the reviews of all the articles in a given collection. The review of an article in a collection now ends with a reference to the review of the collection as a whole. If the review of a collection as a whole includes the table of contents of the collection then any article that is not reviewed individually will usually be indexed by the names of the authors, with a reference to the review containing the table of contents.

A

Aaltonen, Matti 9836
Aanderaa, Stål 412
Aarna, O. ★14814
Aarnes, Johan F. 5392
Aarseth, S. J. *See* 7157
Aarts, J. M. 6088
Aase, Knut 14129
Abaffy, József 1599
Abakuks, Andris 6991, 14167
Abarbanel, Saul 4127
Abasov, A. M. 13293
Abbasov, N. T. 6001
Abbasov, Z. G. 5577
Abbati, Maria C. 2870
Abbott, H. L. 12626
Abd-Ali, A. 4775a-b
Abd-Alla, A. 9010
Abdel Malak, S. 7900
Abdou Selim, Michel 1549
Abdrahmanov, M. A. 9368
Abdullaev, I. 7376
Abdullaeva, G. Z. 10903
Abdulloev, Kh. O. 762
Abdurahmanova, H. K. 3606
Abdus Samad, Sk. 4285
Abduvaitov, H. A. 8140
Abe, Kinetsu 6019, 11227
Abe, Kojun 11362
Abe, Tsutomu 2196
Abeasis, Anna Flávia 720
Abel', È. 3607
Abel', M. A. 3421, 3422
Abeljašev, A. I. 1642
Abelson, Harold 3765, 12786
Abesadze, L. I. 1643
Abgarjan, K. A. 5555
Abhyankar, S. S. 2647
Abian, Alexander 7569, 12803, 13009
Abi Farah, Anis 1428
Abildgard, F. *See* 1447
Abiodun, R. F. A. 7889
Abol'nikov, L. M. 6316
Abraham, D. B. 9540
Abramov, A. H. 1414
Abramov, V. A. 3797
Abramovič, Ju. A. 886
Abramovich, Shoshana 10729
Abramovici, Flavian 1550
Abramowitz, Milton *See* 4033-4041
Abrams, Robert A. 2200
Abramson, Morton 2477, 7272
Abrarova, M. A. 12436
Abraškin, V. A. 5249, 7482
Abusev, R. A. 9845
A'Campo, Norbert 12925
Acar, Cevdet 4824
Achari, J. 1197, 6109
Acharya, A. N. 5362
Acharya, H. S. 9292
Acker, Constantin L. 4322
Ackermann, Jürgen ★9776
de Acosta, Alejandro 8770
Acrivos, A. 6688
Aczel, Peter 12477
Adachi, Masahisa 11362
Adam, Gh. 6507, 9499
Adam, J. 14196
Adámek, Jiří 5314
Adamowicz, W. 14708
Adams, David R. 5822
Adams, E. 11948
Adams, Ernest W. 12471
Adams, J. F. 3698, ★8621, 11331
Adams, R. A. 13551
Adams, R. D. 915
Adams, William B. 2739
Adamski, Andrzej 487
Adasch, Norbert 885, 8210
d'Adda, A. 620
Adelman, Omer 14163
Adetunji, Olùwole 1961
Adichie, J. N. 11644
Adjan, S. I. 10424. *See also* 6, ★4907
Adler, Allan 7245
Adler, Andrew 7344
Adler, R. J. 6491
Adler, Robert J. 14069
Adnađević, Dušan 8541
Adomian, G. A. 1376, 8864
Adoul, Jean-Pierre A. 7093
Aeyels, D. 7081
Afanas'ev, E. F. 6621
Afanas'ev, Ju. M. 12408
Afanas'eva, L. G. 13010, 14273, 14803
Affuso, Paul J. 9608
Afjan, S. K. 8007
Afonja, B. 14214
Afraĭmovič, V. S. 11401
Afriat, Sydney ★6379
Agababjan, K. G. 7003, ★9189
Agarwal, G. S. 12077
Agarwal, L. D. 12119
Agarwal, R. P. 5528
Agarwal, K. R. 6402, 8997
Aggarwal, S. P. 4657
Aggarwal, V. *See* 6965
Aggarwala, Indira 13157
Agliullin, I. N. 11639
Agmon, S. *See* 10888
Agnese, A. G. 2083
Agniašvili, M. R. 4242
Agostinelli, Cataldo 11894, 14486
Agou, Simon 7436, 12721
Agračev, A. A. 13672
Agranovič, M. S. 4337
Agranovskiĭ, M. L. 879
Agrawal, B. M. 7882, 7883
Agrawal, H. L. 3993, 14253
Agrawal, S. C. 6919, 9657
Agrawal, S. R. 13444
Agresti, Alan 11538
Aguilar, R. *See* ★1691
Aguirre, E. 477
A-Hameed, M. S. 6429
Aharonov, Dov 526, 2939
Ahern, P. R. 2976
Ahiev, S. S. 13677
Ahiezer, D. N. 610
Ahiezer, N. I. 7847
Ahlswede, Rudolf 12364
Ahmad, R. 11645, 14226
Ahmad, S. M. W. 14587
Ahmad, Salah 7724
Ahmadi, Goodarz 4325, 9293, 14479. *See also* 9301
Ahmari, Reza 14840
Ahmatova, S. 3336
Ahmed, N. U. 1041, 1600, 9814, 12347, 14846
Ahmedova, P. D. 8203
Ahn, S. 2038
Ahn, S. M. 2932
Ahner, John F. 6696, 14514
Aho, Alfred V. ★1706, 11842
Ahsan, Javed 2731
Ahsanullah, M. 11605
Ahuja, G. C. 1175, 3255
Ahuja, J. C. 2478
Ahuja, Raj 14392
Ahund-zade, M. Ju. 1802
Aibara, Tsunehiro 4848
Aichelburg, P. C. 6859, 9360
Aĭda-zade, K. P. 4662, 12216
Aihara, Shin'ichi 12323
Aĭrapetjan, A. N. 2970
Airault, Hélène 8752, 14116
Aitchison, Peter W. 9990
Aĭzenberg, L. A. 3009, 13106
Aĭzenštat, A. Ja. 432
Aĭzerman, M. A. ★4210
Aĭzikovič, A. 13358
Ajupov, Š. A. 13032
Akahira, Masafumi 3923, 3924, 11622, 11623
Akaike, Hirotugu 11691, 14847
Akamatsu, Toyohiro 7998
Akao, Kazuo 602a-b
Akashi, Hajime 9777
Akcoglu, M. A. 508, 2911
Akemann, Charles A. 12969, 13579
Akilov, G. P. 879
Akinç, Ümit 9681
Akivis, M. A. 1111, 5992, 6005, 8465, 13772
Akiyama, Jin 157, 2538
Akopjan, S. A. 848
Akst, George 10978
Akulenko, L. D. 4797, 13661
Akuškiĭ, I. Ja. *See* ★2316
Alabiso, C. 1955
Alagar, Vangalur S. 6225
Alam, Khursheed 1448
Alame, Sami 11104
Alamelu, S. 2636
Alb, Th. 8436, 8437
Albert, Arthur 1493
Albert, Claude 8656
Albertson, Michael O. 12558
Albis González, Víctor Samuel 28, 5109
Al-Borney, M. S. 8540
Albrand, Hans-Jürgen 8105, 11745
Albrecht, Felix ★3713
Al'breht, È. G. 14796
Al'breht, E. I. 7082
Al'brekht, E. G. *See* Al'breht, E. G.
Albright, S. C. 2171
Albu, Adrian C. ★1266, ★6177
Albu, Toma 10233
Alder, Michael D. 1207, 12253
Aldous, David J. 11465
Aleev, R. Ž. 2794
Alefeld, G. 14355
Aleksandrjan, R. A. 7175
Aleksandrov, A. D. 13714
Aleksandrov, A. Ja. 11903
Aleksandrov, A. M. 11548
Aleksandrov, A. Ya. *See* Aleksandrov, A. Ja.
Aleksandrov, E. A. 2255
Aleksandrov, E. L. 11094
Aleksandrov, I. A. 528, 536
Aleksandrov, Ju. A. 7089
Aleksandrov, P. S. 29, 30, 7161 *See also* ★9904
Aleksandrov, V. M. 11005, 11922
Aleksandrova, B. K. 9118
Aleksandru, I. N. 734
Alekseenko, V. N. 14607
Alekseev, A. B. 8044
Alekseev, O. G. 1601
Alekseev, V. G. 1509, 1510, 6366, 6425, 14282
Alekseeva, S. M. 1601
Alencar, Raymundo 5830
Alenicyn, A. G. 13195
Alešin, S. V. 4856
Aleškevičiene, A. 8853, 14046
Alev, Jack 2724, 10357
Alex, Leo J. 12634
Alexander, H. 10685
Alexander, S. 6035
Alexanian, M. *See* ★6785
Alfsen, Erik M. 943
Alhimova, V. M. 5696

Alibaev, E. K. 10144, 10200
Alić, Mladen 902, 1651, 9241
Aliev, A. B. 669
Aliev, A. D. 14797
Aliev, G. F. 1652
Aliev, N. M. 13355
Aliev, T. M. 6317
Alieva, A. I. 5772
Aliferov, V. V. 1043
Alimov, Š. A. 751
Alinhac, S. 3173, ★8038
Ališkauskas, S. 1911, 10511, 10512
Allahverdiev, Dž. È. *See* ★4887
Allahverdieva, N. K. 1055
Allain, Marie-France 11451
Allam, M. F. 14848
Allami, K. 6685
Allan, F. J. 12374 12387
Allard, Jean-Claude 2841a-b-c
Allard, W. K. 8418, 13694
Allaway, Wm. R. 5518
Allday, Christopher 8683
Alldredge, J. R. 11669
Allegretto, W. 3135
Allen, A. O. 14144, 14162
Allen, Allen D. 9373
Allen, F. E. 4164
Allen, John Ed. 3590
Allen, Paul J. 12839
Allwright, J. C. 11148
Al′-Madani, M. G. 3832, 14081
Almeida Costa, A. *See* 210
Almgren, F. J., Jr. 8419, 8420, 13694
Almkvist, Gert 12744
Alperin, J. L. 10386
Alpern, Steven 2502
Alpert, Louis I. 10517
Alpert, Seth R. 7301
Al′pin, Ju. A. 2359
Al′sevic, L. A. 651
Altibaja, È. D. 11183
Alspach, Brian 5166, 10065
Alster, K. 3652
Altenberger, A. R. 9517, 9527
Alterovitz, S. 3316
Altham, Patricia M. E. 11713
Alton, Donald A. 75
Alts, Thorsten 1902
Altshuler, A. 11174
Altshuler, Z. 8242
Alvarez-Estrada, R. F. *See* Fernández Alvarez-Estrada, Ramón
Alves, Elias H. 12490
Amamiya, Makoto 4204
Amann, Herbert 721, 3519, 5620
Amante, P. 9046
Amao, J. O. 12743
Amato, Francesco 5983
Amaya, A. 1936
Ambarcumjan, R. V. 8788, 14035
Ambarcumjan, S. A. ★4243
Ambartzumian, R. V. *See* Ambarcumjan, R. V.
Ambrosetti, Rodolfo 498
Amemiya, Takeshi 1488
Amerbaev, V. M. *See* ★2316
Ames, W. F. 1607, 11948
Amice, Yvette 7392
Amihăesei, C. 13823
Amiot, P. 1970
Amir, D. 8086
Amirdžanov, G. P. 8545, 8546
Amir-Moez, Ali R. 2676
Amitsur, S. A. 2704, 7534, 10326, 10330
Amiya, Masanobu 8160
Amonov, B. K. 731
Amoroso, Serafino 4857
Amosov, N. M. *See* ★9919, ★9920
Amosova, N. N. 1347, 3817, 8813
Amouroux, Marcel 9770
Amundsen, Per Amund 9435
Amur, Krishna 13755
Anandam, Victor 572, 3000
Anandani, P. 7891, 7908
Anan′in, A. Z. 10104
Anastasio, Salvatore ★3428
Anaya, Janet Crump 10128
Anaya, Marta 871
Anbar, Dan 1504
Ancona, Alano 3381
Anczyk, L. *See* 8059
Andersen, C. M. 9377
Andersen, Kenneth F. 7804
Andersen, Kim 11549
Anderson, Boyd 11403
Anderson, Brian D. O. 2223, 4825, 5274, 7055, 9071
Anderson, D. D. 191, 7332, 12752
Anderson, Dan 6786, 8622
Anderson, Daniel *See* ★10227
Anderson, Douglas R. 1235
Anderson, Frank W. ★5281
Anderson, Ian M. 2084, 12122
Anderson, J. A. 13362
Anderson, J. M. 3376, 7787
Anderson, Joel 1010
Anderson, Kenneth W. ★10513
Anderson, L. A. 11738
Anderson, N. 1187, 4321, 11155
Anderson, O. D. 4004, 7497, 7498, 14278
Anderson, Robert F. 1402a-b
Anderson, Robert L. 7935
Anderson, T. W. 3977, 11715
Anderson, William N., Jr. 14876
Anderssen, R. S. 11775, 13697
Andersson, Karl G. 13559
Andersson, Lars-Erik 5486
Andersson, Stig I. 4409
Andes, D. K. 6418
Ando, Y. 14541
Andonie, O. C. 6030
de Andrade, Rubens Leão 8718
André, C. 9815
André, Michel 12748
Andreassi, Gabriele 9217
Andreev, A. S. 10768
Andreev, V. A. 13067
Andreeva, N. P. 1103, 1104
Andreeva, T. A. 1833
Andreian Cazacu, Cabiria 13073a-b
Andreotti, Aldo ★1311, 3013, 8753, 8754, 11404, 13117, 13137
Andrew, A. L. 11753
Andrews, George E. 7363, 7364a-b
Andrews, M. 1940
Andria, F. 4744
Andriambololona, Raoelina 12020
Andrianov, A. N. 10145. *See also* 6
Andrienko, A. Ja. 7007
Andrijanov, V. I. 10332
Andrisani, Dominick, II 2257
Andrjan, A. A. 745
Andronov, I. K. ★9899
Andrunakievič, V. A. 10347
Andrushkiw, Joseph W. 5096
Andrushkiw, Roman I. 5096
Andry, A. N. 8395
Aneva, B. L. 12018
Anger, Bernd 8232
Angermüller, Gerhard 10253
Anikonov, Ju. E. 8036, 13820
Anis, A. A. 8876
Anisimov, A. V. 10425
Anisimov, Ja. Ja. 13710, 13742
Anisimov, V. V. 11512, 11513
Anisimova, N. T. 5722
Anissimow, Anatolij W. *See* Anisimov, A. V.
Anki Reddy, K. C. 13456, 13458, 13843
Annulis, John T. 13525
Anosov, D. V. 14004
Anosov, V. I. 13445
Anshel, Michael 7633 10446
Ansorge, R. 11819
Antimirov, M. Ja. 13315
Antippa, Adel F. 11820
Antman, Stuart S. 6618, 6619
Anton, Howard 1587, 8584, 13857
Antoncev, S. N. ★9294
Antonec, M. A. 916
Antonelli, P. L. 13936
Antonenko, V. F. 3108
Antonevič, A. B. 1022, 3754, 8740
Antonov, V. G. 9787
Antonovič, T. N. 3554
Antonovskiĭ, M. Ja. *See* ★446
Antoševskiĭ, Z. 9017, 11696
Antosiewicz, H. A. 7960
Antosik, P. ★924
Antypko, I. I. 13288
Anučin, I. A. 12375
Anzai, Hiroyuki 9157
Anzai, Yuichiro 4635
Aoki, Masanao 7054
Aomoto, Kazuhiko 10258
Aoyama, Shogo 12036
Apaĭčeva, L. A. 14320
Apiola, Heikki 3345
Apokorina, V. S. 11746
Apostol, Constantin 977, 1011, 3461, 5852, 5876, 5877, 13593, 13605
Apostol, Tom M. ★10149
Appalanarasimham, V. 12072
Appel, K. 12561
Appelt, W. 6479
Appling, William D. L. 5413, 13011
Apresjan, S. A. 3417
Aprile, G. 9072
Apyšev, O. D. 13196
Åqvist, Lennart 4924
Aracil, J. 7018
Aragon, Yves 14243
Aragone, C. 9557
Arakeljan, N. U. 10609. *See also* 6
Araki, Huzihiro 13585
Aranda, Pedro Jorge 11110
Arandelović, D. 10519
Aranson, S. H. 3757
Arason, J. 12642
Arató, Mátyás 1505, 14023-14025
Arazov, G. T. 9198
Arbib, Michael A. 2753. *See also* ★12941
Arcidiacono, Giuseppe 1903, 4523
Ardito, Ada 7982
Arditti, J. C. 2510
Arena, Orazio 696
Arens, Richard 9490
Arestov, V. V. 3256, 3257, 8116
Argyris, J. H. 6686
Arhipov, G. I. 7397
Arhipova, A. A. 722
Arhipova, E. Ju. 6518
Arhipova, E. S. 9242
Aribaud, François 10554
Arie, Mikio 11966
Arkin, Joseph 12541
Arlazarov, V. L. 148
Armentrout, Steve ★1225
Arminjon, Paul 7983
Armitage, D. H. 567
Armstrong, B. H. 1546
Armstrong, Robert A. 9722
Armstrong, Robert L. 9968
Armstrong, W. W. 9126
Arnal, D. 7702, 10493
Arnason, A. N. 6450
Arnaudon, Madeleine 12711
Arnautov, V. I. 10347, 12733
Arndt, Dieter 13664
Arndt, Ole ★12432
Arnold, André 4197
Arnold, Barry C. 3791, 3904, 11606
Arnold, D. M. 5370
Arnold, Hans-Joachim 5962
Arnold, Irmingard 8463
Arnold, Jimmy T. 2854
Arnol′d, V. I. 1310, 8701
Arnowitt, R. 6710
Aroian, Leo A. 11680
Arolska, M. At. 5594
Aron, M. 1810
Aron, Richard M. 5831
Aronovič, A. B. ★14469
Aronowitz, S. 2677
Aronson, Alan R. 1721
Aronson, Raphael 14672
Aronszajn, N. 915, 13562
Arora, J. L. 9062
Arora, J. S. 11779
Arrigo, M. 6486a-b
Arro, V. 8112
Arrow, Kenneth J. 6902, 9606. *See also* 9610
Arscott, F. M. 625, 11089
Arsen′ev, A. A. 5601, 6691
Artamonov, V. A. 369, 7570
Artemenko, I. A. *See* ★9919, ★9920
Artem′ev, S. S. 1608
Arthur, James 474
Arthurs, A. M. 1887, 4321, 11155, 14519
Artin, M. 5240, 7471
Artino, Ralph A. 5609
Artmann, B. *See* 13720
Artobolevskiĭ, I. I. 11884
Artstein, Zvi 5429
Artykbaev, A. 1140
Artzner, Ph. 11444, 14036
Artzy, Ehud 1707
Aruin, L. I. 4636
Arutjunjan, N. H. 1803
Arutjunjan, T. N. 10889, 10890
Arveson, William 5930
Arya, Shashi Prabha 3654, 6086
Aržanyh, I. S. 5278
Asaad, Mohamed 5344, 7609a-b
Asada, Akira 560, 1285a-b, 7833
Asai, Teruaki 10434
Asano, Tomiko 13569
Asaturjan, A. Š. 9325
van Asch, A. G. 237
Aschbacher, Michael 2781, 10390, 10391
Ash, C. J. 92, ★2411
Ash, J. Marshall *See* 7740
Asher, Robert B. 2257
Ashworth, E. J. 9925
Asimov, Daniel 6153
Alirov, S. 1588, 5921
Askey, R. 10984, 5517. *See also* 12426
Ašmanov, S. A. 9617
Asmussen, Søren 8900

Asner, Bernard A., Jr. 8383
Asoo, Yasuhiro 14064
Assa, Steven Brent 2782
Assad, Nadim A. 8360, 8600
Assimakopoulos, M. 12006
Assouad, P. 6296
Astarita, G. 11934
Astbury, K. A. 10555
Astrahancev, G. P. 11760
Astrahancev, V. V. 3632
Åström, K. J. 7048
Atahodžaev, M. A. 5573
Atalla, Robert E. 3443, 5865
Atanackovic, T. M. 9222
Atdaev, S. 1588
Athans, Michael 11143, 12331, 14747, 14858. *See also* 9820
Athreya, K. B. 6302
Atiyah, M. F. 2383, 3768, 7870, 8741
Atkin, R. H. 12257
Atkin, R. J. 6657, 6658
Atkins, J. M. 13864
Atkins, John R. 9738
Atkinson, C. 4715
Atkinson, D. 14624
Atkinson, F. V. 13208
Atkinson, Giles 7745
Atkinson, Kendall 6528
Atteia, Marc 14398
Atwater, H. A. ★6845
Atwood, Corwin L. 6393
Auberson, G. 12019
Aubin, Jean-Pierre 12226
Aubin, Thierry 1321
Audretsch, J. 4524, 9558
Auer, J. W. 11371
Aull, C. E. 3660 12626
Aumann, R. J. 9621b, 9690
Aumüller, P. *See* ★1053
Aupetit, Bernard 3409, 8290
d'Auria, R. 620
Auslander, Louis ★2877, 11341
Auslander, M. 7550, 12832
Avantaggiati, Antonio 11047, 13286
Avenhaus, J. 12510
Averbuh, N. D. 1087
Averna, Alfonso 3563
Avetisjan, R. A. 8142
Avila, J. H., Jr. 6487
Avishai, Y. 12120
Avotin, E. V. 9199
Avramčuk, V. V. ★14742
Avramescu, C. 8184
Avrett, Eugene H. 2123
Avriel, M. 2213
Avron, J. 1971
Awasthi, G. D. 11218, 13737a
Awtar, Ram 361
Ax, James 1912
Aye, Sein 5373
Azamatov, S. Ž. 3192
Azamov, A. 5522
Azarin, V. S. 14047
Azatjan, A. A. 2579, 10030, 14434
Azbelev, N. V. 678
Azencott, Robert 13951
Azimov, A. Ja. 6969
Aziz, A. K. 9111
Azīzov, T. Ja. 11102
Azovskiĭ, V. V. 13329
Azumi, Saburo 7102
Azzarelli, Teodoro 9409

B

Baartmans, A. 2494
Babadshanjan, H. 4264, 11921
Babaev, D. A. *See* ★4887
Babaĭcev, V. A. 12706a-b
Babary, Jean-Pierre 9770
Babbage, D. W. 5264
Babbitt, D. 1972
Babcock, Bruce S. 2895
Babenko, Ju. I. 1896
Babenko, V. F. 5697, 8089
Babenko, V. I. 1801
Babeško, V. A. 9263
Babič, V. M. ★14569
Babiĭ, V. P. 10753
Babiker, A. G. A. G. 13020, 13021
Babu, G. Jogesh 11426
Babuška, Ivo 9111
Bacalu, I. 3479, 3480
Baccini, Alain 3975
Bachelis, Gregory F. 3362
Bachmann, Karl-Heinz 14348, 14374
Bachmuth, S. 398, 399
Bacis, R. 6798
Backhouse, Nigel B. 2775, 4374, 5398, 12005
Backhouse, R. C. 1719
Backwinkel-Schillings, Margot 13645
Bacon, Philip 8624
Bacon, Phyrne Youens ★11166
Bačurskaja, A. F. 3317
Baczyński, Z. F. 1780
Bad, Monica 1458
Badalbaev, I. S. 3869
Bade, William G. *See* ★1009
Bădescu, Lucian 7452, 7465
Badji, Chérif 601a-c 7848
Badrikian, A. 3831, 5886, 8771, ★8772
Baeger, Ingo 12286
Baer, Robert M. 9991
Baernstein, Albert, II 5456
Bagai, O. P. 14235, 14236
Bagchi, A. 6558
Bagchi, Arunabha 14845
Bagchi, S. C. 7690
Bagdasarjan, G. E. 6652
Bagijan, R. A. 805
Bagirov, L. A. 10816
Bagrinovskaja, G. P. ★11826
Bahar, E. 1876, 9358
von Bahr, Bengt 6229
Bahturin, Ju. A. 7562
Bahvalov, N. S. *See* 6
Bahrah, S. M. 1867
Baĭbikov, V. D. 14047
Baĭdak, D. A. 1781
Baier, H. 6636
Baĭer, V. N. 9436
Bailey, J. E. 14838
Baillet, Michel 13604
Baillon, Jean-Bernard 11924, 13655
Baily, W. L. 7377
Baĭmuratov, H. A. 5992
Baines, P. G. 9602
Baĭnov, D. D. 3071 3326, 5579, 5584, 5594, 8195, 13494
Baiocchi, Claudio 9336
Bair, J. 5968, 11172, 13721
Baĭramov, A. M. 14369
Baĭtman, M. M. ★4759
Bajpai, P. L. 10591
Bajpai, S. D. 9922
Bajpai, S. K. 5464, 13079
Bajraktarević, M. *See* 8059
Bakaev, A. A. *See* ★9919, ★9920
Bakel'man, I. Ja. 11246. *See also* ★9913
Baker, A. *See* Baker, Alan
Baker, A. J. 4328
Baker, Alan 10162, ★10163, *See also* 16, 2394
Baker, Garth A. 11810, 11811
Baker, George A., Jr. 4088
Baker, I. N. 7777, 10595
Baker, John Warren 5815, 7949
Baker, Kirby A. 12520
Baker, P. W. 11751
Baker, R. C. 5158, 7417, 10168
Baker, Ronald 2513, 4999
Baker, Theodore P. 4180
Bakhrakh, S. M. *See* Bahrah, S. M.
de Bakker, J. W. 11829, 14422
Bakker, T. 11578
Baklan, V. V. 9816, 9817, 14077, 14095
Bakó, A. 2165
Baksalary, J. K. 1489, 3978, 9068
Bakunin, G. N. 10648
Bakušinskiĭ, A. B. 11761
Bala, P. 5363a-b
Bala, Shakti 13076
Bałaban, T. 4410
Balachandra, M. 7964, 10772
Balaev, M. K. 3119
Balagurusamy, E. 12189
Balajan, N. M. 1624
Bălan, Stefan 12440
Bălan, T. 1146, 1147, 3639
Balanis, George N. 4240a-b
Balas, Egon 2487, 5020. *See also* 9654
Balasubramanian, S. 14608
Balázs, M. 5922
Baldassarri, Francesco 284
Baldi, Paolo 14107
Baldisserri, Natalia 5173
Bales, John W. 1181
Balescu, R. 2058, 4286, 9528, 12071
Bali, Hari N. 14813
Balin, E. A. 3539
Balinski, M. L. 12441. *See also* ★14769-★14771
Balĭnskiĭ, A. I. 972
Balk, M. B. 10617
Balke, H. 9230
Ball, B. J. 8559
Ball, John M. 3532
Ball, Joseph A. 5872
Ballantine, C. S. 2697
Ballet, Bernard 10348
Balli, Raffaele 9200, 11885
Ballou, Donald P. 5607
Balsa, T. F. 11963
Balslev, E. 1972
Baltov, A. 1775
Baltrūnas, A. 14110
Bamba, Kanté Siaka 7554
Bancel, Daniel 11385
Bančev, V. 7802
Bancroft, T. A. *See* ★6337
Bandemer, H. 14274
Bandle, Catherine 694, 732, 3158, 8043, 13726
Bandler, J. W. 4096
Bandt, Christoph 7291
Bandyopadhyay, A. K. 14888
Banerjee, A. 6849, 9550
Banerji, P. K. 7892
Banerji, S. 6849
Bănică, Constantin 3013
Baničuk, N. V. 4265, 6637, 6638
Banis, I. I. *See* Banys, J.
Banis, R. *See* Banys, R.
Bank, Steven B. 7880
Bánkövi, G. 2138
Bannai, Eiichi 5323, 10720
Banno, Shohei 6888
Bantaş, Gh. 13493
Banyaga, A. 1286
Banys, J. 14048
Banys, R. 6272
Bânzaru, T. 6074, 13457
Baouendi, M. S. 707, 13356
Bär, Gunter 2190
Barabošin, N. M. 3604
Barakat, M. F. A. 2967
Barakat, Richard 1889, 4079, 6226, 11452
Barancev, R. G. 4897
Baranenkov, G. ★2370
Baranovič, T. M. 5088
Baranowicz, Józef 10589
Barański, F. 13273
Baranyai, Zs. 5047
Baras, John S. 4749
Baraško, A. S. 14436
Barback, Joseph 84
Barbaini, Franco 8838
Barbălat, I. 7950
Barbance, Christiane 11236
Barbançon, G. 774, 3206
Barber, J. R. 1782
Barbieri, Francesco 3553, 10780, 11260
Barbosa, J. L. 1292
Bărbulescu, I. 3674
Barbut, Marc ★7333, ★7334
Barcilon, Victor 6620
Barclay, D. W. 11904
Bardos, Claude 13349
Bardzins'kiĭ, V. V. 2977
Bareket, Miriam 3186
Barge, Jean ★8676
Bar-Itzhack, I. Y. 1574
Bark, Oul Yong 11214
Barkai, D. 1930
Barkan, Philippe 5179
Barker, George Phillip 2701, 7781, 12812
Barkin, Ju. V. 1748, 4222
Barkovskiĭ, L. M. 1820, 1877
Barlotti, A. 8434
Barlow, Richard E. *See* ★11709
Barnao, E. 4744
Barnard, G. A. 1490, 11595. *See also* 3944, 6338, 11600, 14172
Barnard, G. B. *See* 1447
Barnard, R. W. 529, 10585
Barnard, Robert D. 1056, 1057, 2280
Barndorff-Nielsen, O. *See* 1447, 6338
Barnes, A. 6850, 14709
Barnes, Bruce A. 3432
Barnes, C. W. 7391, 12615
Barnes, E. R. 14375
Barnes, John L. 2331
Barnes, K. J. 6789
Barnes, Kenneth T. 12472
Barnett, A. 4620
Barnett, Stephen 9747
Barnett, V. D. *See* 3939
Barnett, William A. 6356
Barnette, D. 13926
Barnhill, R. E. 9038
Barnsley, M. F. 4088, 7932
Baron, David P. 6343
Barr, Dennis 7933
Barr, Michael 5311, 11036, 13522
Barr, Robert O. 7006
Barra, J. R. 11596
Barrar, R. B. 799, 4067
Barraud, A. 12304
Barrett, Kenneth E. 14562
Barrett, Wayne W. 12085
Barron, Emmanuel Nicholas 7044
de Barros, Constantino M. ★13959, 13991. *See also* 8457

Barros-Neto, J. 8001
Barrow, David L. 1539, 1637
Barrucand, Pierre 10189
Bar-Shalom, Yakkov 2256, 9821
Barsky, Daniel 10133
Bart, George R. 3339
Barta, J. 1821
Barták, Jaroslav 3109
Bartels, Hans-Jochen 7374
Bartelt, Martin 1001
Bartenwerfer, Wolfgang 10666
Barth, Thomas 10636
Barth, Wolf 10285
Barthel, Woldemar 8463
Barthélémy, Jean-Pierre 10377
Bartholomew, D. J. *See* 11595
Bartle, Robert G. *See* ★ 1009
Bartlett, M. S. *See* 1529, 11595
Bartlett, James H. 7157
Bartocci, Umberto 11167
de Bartolomeis, Paolo 7835, 8647, 13110
Barton, N. G. 1857, 1858
Bartoš, I. 1878
Bartos, Jerzy 14287
Bartosiewicz, Stanisława 12163
Bartoszyński, Robert 3792, 14082
Bartsch, Hans-Jochen ★ 12431
Barwell, Victor 6472
Barwise, Jon ★ 12519
Bărză, Ioana 6310, 6311
Barzdinš, J. 9989
Barzilovič, E. Ju. 6923
Bašaleišvili, D. I. 7012
Basar, T. 6970, 7040
Bašelešvili, M. O. ★ 9233
Basili, Luciano 10909
Bašilova, V. I. 5980
Basis, V. Ja. 14164
Baskakov, V. A. 3241, 3242
Baskan, Turgut 2951
Baskaran, S. 5335
Baškene, A. L. *See* Baškienė, A.
Baskerville, J. C. 8940
Baškienė, A. 6020
Bašmakova, I. G. ★ 2584
Bass, F. G. ★ 4461
Bass, H. 2634, 7634, 10203, 12747
Bass, L. J. 6598
Bastian, Joseph J. 8341
Bastian, Michael ★ 6903
Bastiani, A. *See* ★ 371
Bastin, D. 9854
Bastin, H. 3090, 6601
Basu, A. K. 1468, 6230
Basu, D. 11600. *See also* 1447, 6338
Basu, Dhruba 9197
Basu, J. P. 1462
Basu, M. S. 14888
Basu, Rekha 1462
Basu, Sanat K. 6537
Basuthakur, S. 14828
Bataille, Jean 11990
Bataille, Michel 9000
Batalin, I. A. 4375
Bather, John 14791, 14792
Batikjan, B. T. 933
Batra, D. P. 8915
Batra, R. C. 9363
Batra, Raveendra N. 9607
Battaglia, Felice 8457
Battig, A. 8175, 8193
de Battig, N. E. F. 8191
Batuhtin, V. D. 6977
Baudisch, A. 7246, 10001
Bauer, Burkard 7759
Bauer, F. L. 6476, 7189
Bauer, Karl Wilhelm 10618
Bauermeister, H. 7764
Baues, Hans Joachim 3695, 8629
Bauhoff, Eugen Peter 7917a-b
Bauhoff, W. 1913, 1956, 14588
Baum, Alan M. 3228
Baum, Paul 317
Baum, R. F. 13662
Bauman, Steven 397
Baumann, V. *See* ★ 5057
Baumann, Wilhelm ★ 1530
Baumeister, J. 10936
Baumgarte, J. *See* 7157
Baumgärtel, H. 13603, 14625
Baumgartner, B. 9437
Baumgartner, James E. 4988
Baumslag, Benjamin 10419
Baumslag, Gilbert 359, 10411, 10421, 12906
Baur, Walter 4953, 12910
Bautin, A. N. 10744
Bavel, Zamir 2360
Bavinck, H. 3243
Bawa, V. S. 14781
Baxley, John V. 5561
Baxter, J. R. 2911, 3837, 8872, 14124
Bayer, W. 4488, 4489
Bazaev, Ju. V. 7622, 7625
Bazalĭĭ, B. V. 4361, 8026
Bazaraa, Mokhtar S. 9636
Bazarov, I. P. 9541, 12444
Baženov, L. G. 12309
Bazin, M. J. 9733
Bazylev, V. T. 1095
Bazylewicz, A. 7421
B´čvarov, Stefan N. 6602
Beale, E. M. L. 4093, 6955
Bean, Dwight R. 4951, 4952
Bear, H. S. 8252
Beard, Jacob T. B., Jr. 2530
Beasley, Leroy B. 7495
Beatty, M. F. 14520
Beauchemin, Pierre 7265
Beauquier, Joffroy 1720
Beauzamy, Bernard 6297
Beazer, R. 7341
Beccari, C. 4826
Becchi, C. 1973
Bechtolsheim, Lulu *See* ★ 2925, ★ 3667
Beck, James S. 7015
Becker, E. 7173
Becker, Eric B. 1671
Becker, Heinz E. 12883
Becker, J. C. 3689
Becker, Jochen 2957
Becker, Joseph 3018
Becker, P. J. 6376
Beckert, H. 6639, 11905
Bector, C. R. 2207, 4663, 9666
Becus, Georges A. 11973a-c
Beddington, J. R. 12248
Bedel´baev, A. A. 14782
Bedford, Eric 6214
Bedian, Vahe 2240
Bednarek, A. R. 12942, 13830
Bedžanjan, R. R. 1352
Beekmann, Wolfgang 5670
Beem, John K. 2085, 8504
Beem, R. Paul 13940
Beer, Stafford *See* ★ 4731, ★ 4732
Beeri, C. 14437, 14462
Beesack, Paul R. 2902
Beeson, Michael 2425, 7208
Beevers, C. E. 9295
Beghelli, S. 4745
Bègžžav, P. 6419
Behari, Ram *See* Ram Behari
Behr, Helmut 10431
Behrens, Ernst August 435
Beichelt, Frank 9641
Beig, R. 9360
Beiler, Albert H. 10117
Bellinson, A. A. *See* 12413
Bein, P. Lawrence 6927
Beisiegel, Bert 12884
Beister, Jochen 4827
Bejan, H. C. 2185
Bejancu, Aurel 8694
Beker, Henry 10049
Bekes, Robert A. 8147
Bekmurzaev, O. B. 7959
Bektaši, T. G. 11895
Belaga, È. G. 127
Belan, E. P. *See* Bilan, È. P.
Bélanger, P. R. 4772
Belfi, Victor 6130
Beljaev, Ju. K. *See* ★ 8934b
Beljaev, V. A. 8075
Beljakin, N. V. 9996
Bell, Howard E. 2735, 7556
Bell, J. S. 9423
Bell, P. 4525
Bellandi, F.º J. 1941, 1946
Bellani Tamburini, Maria Chiara 5340
Belleni Morante, Aldo 6922
Bellert, Stanisław 7114
Bellman, Richard 2417
Bellmann, R. 3346
Belnap, Nuel D., Jr. 2430
Bel´nov, V. K. 5379, 11288
Belobragina, L. S. 9642
Belocerkovskiĭ, S. M. 9341
Belopol´skiĭ, A. L. 3444
Belotserkovskiĭ, S. M. *See* Belocerkovskiĭ, S. M.
Belousov, Valentin D. 2858, 10463, 12943
Belova, A. V. 4898
Beltrametti, M. 5265, 12773
Belugin, V. I. 11277
Belyh, V. N. 3102
Belytschko, T. *See* ★ 9283
Benabdallah, Abdel-Ilah 10494
Benach, Robert 6707
Benachour, Saïd 13279
Benard, Mark 391
Benati, Mauro 9366
Benci, V. 1062, 6736
Bencivenga, Ermanno 12523
Benczúr, András 14023, 14024
Benderskiĭ, O. Ja. 198
Bendrikov, G. A. 2293
Bendzulla, Claus 1641
Benedetto, S. 2317
Benedikt, Svetlana *See* 2138
Benenti, Sergio 8721, 12123
Beneš, V. E. 4872
Benevento, Maria L. 8019, 8020
Benický, Marián 3058, 13173
Benneton, Gaston 7368
Bennett, A. F. 1868
Bennett, B. M. 1469
Bennett, G. 8311
Bennett, M. *See* 4159
Bennett, R. J. *See* 1529
Bennett, Spencer ★ 11655
Bennewitz, Ch. 3468
Benois, Michèle 10447
Benson, David B. 375
Benson, H. P. 14783
Bensoussan, A. 8895, 11146
Ben-Tal, A. 1338, 12203
Bentkus, R. 9017, 11697
Bentley, H. L. 13840
Benveniste, A. 3860a, 6246
Benvenuti, Pietro 8199
Benzinger, Harold E. 3073, 10730
Beran, L. 2554, 7345, ★ 10383
Beran, Mark J. 6698, 8870
Berard, P. *See* 4159
Berard-Bergery, L. 6032, 8518
Berberian, Sterling K. ★ 3342, ★ 5775
Berchtold, W. 8998
Bercun, V. N. 1644
Bereanu, B. 12225, 14779
Berenblut, I. I. *See* 9943
Berens, H. 10947
Berenson, Rhoda 12882
Berenstein, Carlos A. 11053
Béres, E. 14534
Berezdivin, R. 2086, 6860
Berezhinskiĭ, T. A. *See* Berežinskiĭ, T. A.
Berezin, F. A. 1295, 10495
Berežinskiĭ, T. A. 11141
Berežnoĭ, I. A. 4244
Berezovskiĭ, A. A. ★ 9231, 9709
Berezovs´kiĭ, A. I. ★ 2259
Berezovskiĭ, B. A. 2172
Berg, Christian 8165
Berg, I. D. 3507
Berg, L. 925, 10912, 10995
Berg, Menachem 6430
Bergé, Anne-Marie 2625
Berge, Claude 10061
Bergen, Arthur R. 7062, 9790
Berger, Alan E. 4140
Berger, Gerd 11729
Berger, Melvyn S. 5541, 10901
Berger, Thomas R. 10397
Berger, Toby 2332
Bergère, M. C. 12037
Berglund, John F. 863, 10982
Bergmann, Horst 158
Bergmann, Joachim 14748
Bergmann, Ludmilla 14748
Bergmans, Patrick P. 9846
Bergstresser, K. 14743
Bergstrom, Robert W. 9296
Bergstrom, Theodore C. 12164
Berhin, P. E. 8052
Berk, Kenneth N. 9018
Berk, Robert H. 6409
Berkes, I. 14031
Berkey, Dennis D. 3092, 5523, 5556
Berkovic, E. M. 14405, 14857
Berkovič, V. N. 11906
Berkovits, Shimshon 10953
Berkovitz, Leonard D. 3533, 8379, 11139, 13673
Berkson, Earl 5903
Berlekamp, E. R. 285. *See* 286
Berman, Abraham 330, 10300
Berman, D. L. 792
Berman, Gerald 14470
Berman, Stephen 10360
Bermond, J.-C. 5029, 5033
Bernard, P. 3831
Bernays, Paul 4904. *See* ★ 2458, 4903, 4905
Berndt, Rolf 5238
Bernholtz, B. 12281
Bernstein, Arthur 4621
Bernstein, Barry 1873
Bernšteĭn, D. N. 8451
Bernšteĭn, I. N. 2884, 3714, 12988, 12989
Bernstein, Leon 7427, 12620, 12708
Bernussou, J. 5552, 10763
Berquier, Françoise 13983
Berrick, A. J. 8673, 8674
Berry, Daniel M. 2566
Berry, David 5301
Berry, Donald A. 11483

Berry, William L. 6897
Bers, L. 10677
Bersenev, S. M. 14338
Bershteyn, L. S. *See* Beršteĭn, L. S.
Bērsons, I. 9404
Beršteĭn, L. S. 125
Beršteĭn, M. S. 9037
Berstel, Jean 2572, 2576
Bertelè, Umberto ★4677
Berthelot, Pierre 3019
Berthier, A. M. 849
Bertholf, L. D. 11940
Bertin, Émile M. J. 10370. *See also* 10639
Bertin, G. 4556
Bertoluzza, Carlo 9847, 12365
Bertran, Miguel S. 14862
Bertrand, Daniel 2598
Bertrand, J. 9470
Bertsekas, Dimitri P. 2216, 4094
Berzin, Robert 1322a-b
Besala, P. 10848
Besov, O. V. 3386, 3387. *See also* 6
Bespalova, S. A. 13187
Bespamjatnyh, N. D. 12445
Bessaga, C. 5812, 5813, 8640
Bessis, D. 4471
Besson, Gérard 12766
Bestwick, Paul F. 4622
Betten, Dieter 1078
Betts, J. R. 5802
Betts, J. T. 9670
Beutler, Frederick J. 4802
Beverage, David G. 5103
Beyer, Jan E. 9007, 14138. *See also* 2138
Beyer, Klaus 1834
Beyl, F. R. 7659, 10408
Bezák, Viktor 9492
Bezdek, James C. 6586
Beznoščenko, N. Ja. 8027
Bhagavan, B. K. 4179
Bhagwati, Jagdish 9631
Bhandiwad, R. A. 8929
Bhapkar, V. P. 1495
Bhargava, R. P. 6391
Bhargava, R. R. 1773
Bhargava, S. 3548, 4369
Bharucha-Reid, A. T. 1390
Bhaskaran, S. *See* Baskaran, S.
Bhat, K. P. M. 12260, 12261
Bhat, Vasanti N. 7307
Bhatia, Nam P. 8595
Bhatia, P. K. *See* 11965
Bhatt, B. S. 14554
Bhatt, S. K. 2207
Bhattacharya, P. K. 14112
Bhattacharyya, S. 14392
Bhave, V. N. 5025
Bhola, H. L. 13428
Bhonsle, B. R. 5752, 8194
Bialynicki-Birula, Iwo 14609
Bibel, W. 4930
Biblarz, Oscar 9297
Bicadze, A. V. 9929. *See also* 6
Bican, L. 2710, 2711, 5367, 5368, 10311, 12828
Bicknell, Marjorie 216, 2578, 5014, 5105
Bicknell-Johnson, Marjorie 10129, 12535
Bidaut, M. F. 3536
Biedenharn, L. C. 627
Biel, J. 4462
Biel Gayé, J. 2032-2034
Bielak, Stanisław 1783
Bienaymé, Irénée-Jules *See* 14132
Bieri, Robert 14011
Bierman, Gerald J. 12338, 14850
Bierstedt, Klaus-Dieter 3371
Bierstone, Edward 6183
Biggins, J. D. 8901
Biggs, N. L. 4448
Biglieri, E. 2317, 7103, 9831
Bilan, É. P. 11063
Bilinski, Stanko 1065
Bilinskiĭ, I. Ja. *See* ★14866
Billard, Pierre 3377
Billera, Louis J. 4691, 12165
Bilyeu, Russell 13563
Binderman, Zbigniew 13089
Binding, Paul 1660
Bingener, Jürgen 10667
Bingham, N. H. 3859, 10984
Binz, E. 1153
Binz, Jany Cajetan 5022, 12531, 12629
Bioch, J. C. 12895
Biollay, Yves 873
Biot, M. A. 14578
Bird, Charles 9702
Bird, Howard A. 6381
Bird, Otto 12446
Birina, G. A. 11678
Birjukova, L. A. 9855
Birkenmeier, G. F. 7547
Birkes, David 6386
Birkhoff, G. *See* ★2371
Birman, Alexander 1699, 14423
Birman, Joan S. ★13894
Birman, Joseph L. 12882
Birman, M. Š. 8044. *See also* ★12423, ★12424
Birnbaum, Heinz ★9900
Birnbaum, Z. W. *See* ★11709, 12455
Biroli, Marco 735, 7984, 8051, 8364-8366, 10854
Birsan, T. 13858
Bismut, Jean-Michel 3838, 9686, 14083
Bistrickas, V. 8399, 11147, 14794
Biswas, Paritosh 9243
Biswas, S. N. 1974
Bitjuckiĭ, V. P. 12376
Bitner, James R. 1249
Bityutskiy, V. P. *See* Bitjuckiĭ, V. P.
Bitzer, Carl W. 3318
Bix, Michael *See* ★11368
Bixby, Robert E. 4691
Bizám, György ★2410
Bjambažav, D. 6419
Björk, Harry 4033
Błach, Anna 13715
Blackburn, John E. 7293
Blagonravov, L. A. 3962
Blagoveščens'kiĭ, Ju. V. 1545
Blair, Charles 6947
Blair, David E. *See* ★11178
Blair, J. M. 9047
Blair, Robert L. 3649, 8556
Blaizot, France ★11836
Blaizot, Laurent ★11836
Blake, Ian F. ★2321, 9842, 10050
Blake, J. R. *See* 4050
Blanc, Georges 9983
Blanchard, François 5436, 10556
Blanc-Lapierre, André 11523
Blank, Ja. P. 8480
Blankenship, Gilmer L. 9809
Blankenship, J. W. 9671
Blanpied, William A. 7166
Blaquière, Augustin 5944, 14798. *See also* 2232
Blasco Olcina, José Luis 11273
Blass, Andreas 2466, 12515
Błaszczuk, Jerzy J. 9978
Błaszczyk, A. 13851
Blatt, Hans-Peter 803
Blatter, Jörg 13423
Blau, Julian H. 4571
Błaż, J. 3125, 5595
Błażewicz, Jacek 4623
Blazkevic, B. I. ★4828, 7115
Bleecker, David D. 13789
Bleicher, Michael N. 7359
Bleistein, N. 7000
Blessenohl, Dieter 2788, 10398
Bleuez, Jacques 8971
Blevins, Donald K. 525
Bliev, N. K. 8260
Blinov, S. P. 676
Blijudov, E. V. 12124
Bloch, Spencer 318
Block, Henry W. 6431
Block, Louis 1305
Block, Richard 7356
Blood, F. A., Jr. 4058
Bloom, F. 4273
Bloom, Frederick 5908
Bloom, Walter R. 3303, 5704
Bloore, F. J. 9471, 12006
Blošanskiĭ, I. L. 3287
Blozinski, A. P. 3383
Blum, E. ★6956
Blum, E. K. *See* 11828
Blume, Klaus-Dieter 14488
Blyth, Colin R. 3899
Boardman, J. M. ★8623a
Boardman, Thomas J. 6432
Boari, M. 7116
Bobillo Guerrero, Pablo 5401
Bobkova, N. A. 11799
Boboc, N. 10632
Bobylev, A. V. 4494
Boccardo, Lucio 13300
Bochnak, Jacek 13111
Bočkarev, S. V. 10961
Boçşan, Gh. 1178
Bočvar, D. A. *See* ★7191
Bod, Péter 12208
Boehm, C. 9026a-b
de Boer, R. 4245
Boerner, Hermann *See* ★7154
Boersma, J. 14570
Boffa, Maurice 10013
Boffi, Vinicio 4463, 14660
Bogačev, V. A. 564
Bogart, Kenneth P. 2553, 5059, 5061
Bogatyĭ, S. A. 13912
Bogda, Richard 7763
Bogdanov, Ju. S. 9934
Boggs, Paul T. 4095
Bogin, Joseph 5914
Boglaev, I. P. 4617
Bogoljubov, N. N. ★2400, 6813, 12444
Bogoljubskiĭ, I. L. 762
Bogolyubov, N. N. *See* Bogoljubov, N. N.
Bogomolov, A. N. ★4858
Bogomolov, S. A. 12445
Boguslavskiĭ, L. B. 8916
Bogy, David B. 6630
Bohac, Robert 7980
Bohlender, Gerd 4080
Böhm, A. 1914
Böhm, Corrado 1694
Böhm, W. 14309, 14310
Bohman, Harald 4155, 6470
Böhmer, Klaus 5677
Boĭčuk, L. M. 4671
Boĭcun, L. G. 10962, 10963
Boĭko, A. I. 4338
Boĭko, R. V. 6303
Boillat, Guy 9298, 9299, 12107, 14571
Boĭmatov, K. H. 10891
Bois, Pierre-Antoine 13350, 14544
Boisen, Monte B., Jr. 5222, 7445
Boiteux, M. 14589
Boivin, G. 10972
Bojadžiev, Petr G. 10607
Bojanov, Borislav D. 819, 3253, 5698, 10524, 13378
Bojanov, K. 9889
Bojarinov, I. M. 12350, 14867
Boju, V. 1306, 13758
Bokov, Aleksandr G. 14394
Bokowski, J. 8452
Boksenbaum, C. 4159
Bokučava, I. V. 14140
Boland, J. S., III 9775
Boland, Philip J. 8285
Boland, W. Robert 14410
Boldescu, Petre 3569
Bolen, J. C. 11115
Bolker, Ethan D. 112
Bolley, Pierre 13290
Bollobás, Béla 128, 149, 159, 12572, 12573
Bolotin, V. V. 11900
Bolotnik, N. N. 5557
Bolotnikov, Ju. V. 3793
Bolotovskiĭ, B. M. 4339
Bol'šakov, V. A. 12192c
Bol'šev, A. I. 6340
Bol'šev, L. N. *See* 6
Bol'shakov, V. A. *See* Bol'šakov, V. A.
Bolthausen, Erwin 3782
Boltjanskiĭ, V. G. ★1053, 3593, 13703
Bombal, F. 11018
Bombal Gordón, Fernando 186, 5742
Bombieri, Enrico 2597, 13693. *See also* 2385
Bompiani, Enrico *See* 2395, ★9905
Bona, J. 8361
Bonanos, Sotirios 14710
Bonar, D. D. 5478
Bonč-Bruevič, V. L. 13294
Bondar', A. V. 2936
Bondarčuk, V. S. 11395, 11396
Bondesson, Lennart 3905
Bondi, I. L. 13441
Bondi, P. 8596
Bondy, Daniel A. 8045
Bondy, J. A. ★117, 2531
Bonet, Eduard 6242
Bongaarts, P. J. M. 14673
Bongiorno, Fulvio 3199
Bongiovanni, G. 6587
Bonnieux, F. 9682
Bononcini, Vittorio E. ★5662
Bonsaal, Frank F. ★11013, 13577. *See also* 19
Bony, J. M. 741, 1314. *See also* 17, 18
Book, Stephen A. 3818, 6243
Booker, J. R. 11943
Boone, James R. 3653, 6081, 13865
Boonyasombat, Virool 774, 3206
de Boor, Carl 3229, 5678, 10937, 13387
Boos, William 2467
Booth, Dexter J. 12108
Booth, Taylor L. 9896
Boothby, William M. ★13956
Bopp, Fritz 4398
Boratyn, Mieczysław *See* ★12430
Borel, Armand ★2871. *See also* 14
Borel, Émile ★8065
Borel, François 13910
Borell, Christer 1353
Borevič, Z. I. 4897. *See also* ★10339
Borghesani, R. 9365, 9366
Borgogno, Maria 8390
Borho, Walter 367, 10358
Borie, Philippe 5038
Borisenko, A. A. 1133
Borisov, I. S. 1340
Borisova, L. B. 14711
Borisovič, Ju. G. ★11348
Borkowski, Szczepan 14521
Borne, P. 2260, 12300
Borodihin, V. M. 3783
Borodin, Allan 14438
Borodjuk, V. P. 9755
Borok, V. M. 13288
Borosh, I. 10291
Borovik, A. V. 2798
Borovs'ka, T. T. 4084
Borovskih, Ju. V. 8951
Borovskiĭ, Ju. E. 315
Borowsky, Michael S. 6477
Borrelli, R. L. 11897
Borş, C. I. 1784
Borşan, D. 13824
Borsuk, Karol 1155, ★6132. *See also* 1156
Borteĭ, M. S. 5581
Bořůvka, O. ★431. *See also* 8457
Bořůvková, Milada *See* ★431
Borwein, D. 781, 5668, 13367
Borwein, J. M. 14784
Borysiewicz, M. 14674
v. Borzeszkowski, H.-H. 2074
Bos, Werner *See* 7176
Bosanquet, L. S. 778
Bose, N. K. 4733, 4776, 9071
Bose, R. C. 7287, 8999. *See also* ★4029
Bose, S. K. 13077
Bose, V. V. 13769
Bosq, Denis 8971
Bosteels, G. 12608
Boswell, M. T. 1411, 6345
Bottema, O. 11439
Botlík, Oldřich 10025
Botnaru, D. V. 11074
Botros, Youssef Zaki 11975
Bott, Raoul 13932
Bottaro, Gianfranco 8012, 8386
Bottema, Oene 9201, 12156
Botto, M. A. 793
Bouc, R. 10798
Bougas, I. 14764
Bougerol, Philippe 14033
Boujot, Jacqueline 6663
Bouligand, George *See* 8457
Boullion, Thomas L. *See* ★14217
Boulware, David G. 12125
Bourbaki, N. ★5282
Bourgain, J. 3363
Bourguignon, Jean-Pierre 6189
Bourn, Dominique 12855
Bourret, R. 1890, 4355
Bousfield, A. K. 13906
Boutet de Monvel, L. 1315, 11409, 13291
Boutot, Jean-François 12769
Bouvier, Alain 436, 2842, 7447, 7668-7670
Bovdi, A. A. ★408
Bove, A. 12038

Boviatsis, Alexandre ★934
Bovyn, M. P. 2087
Bowden, R. L. 4464
Bowen, Kenneth A. 4931
Bowen, Rufus 1300, 14005
Bowers, David ★11655
Bowman, H. Woods 12204
Bowman, V. J. 4572
Box, George E. P. ★6362, 7068. *See also* 3944
Boxma, O. J. 14145
Boya, Luis J. 9378
Boyanov, K. *See* Bojanov, K.
Boyarsky, A. 7041
Boyd, David M. 1002
Boyd, David W. 909
Boyd, John P. 9300
Boyer, C. P. 4376, 4399
Boykin, William H., Jr. 5943, 7036
Boyle, Brian E. 9008
Boyle, J. T. 1785
Boyling, J. B. 9370
Boyom, Nguiffo 8760-8762
Bozis, George 1749
Bozojan, Š. E. 7130
Božorov, E. E. 5000
Braaksma, B. L. J. 8053, 8176, 10898
Bracci, L. 4438
Bracha, Czesław 11601
Bradford, Henry M. 9410
Bradley, C. J. ★14572
Bradley, J. S. 634, 13206
Bradley, Lee C. 4045
Bradshaw, A. 2286
Brady, Ross T. 57
Braemert, D. 118
Braess, D. 4678, 5679, 13397
Bragard, Léopold 5782
Bralčev, G. G. 5608, 7993
Brams, Steven J. 9608
Brâncuş, Dan E. N. 6823
Brand, D. 9187
Brandal, Willy 2644
Brändas, E. 14626
Brandin, V. N. 12262
Brandt, R. A. 12055
de Branges, Louis 5393, 8256, 8257
Branin, F. H., Jr. 6488
Brannan, D. A. 537
Brascamp, Herm Jan 492
Braß, Helmut 820, 824
Brasselet, Jean-Paul 7836
Bratteli, Ola 13586
Braude, Eric John 13822
Brauer, Fred 2249, 5554, 9723, 9724
Brauer, R. 2384, 5176, 5328, 7599
Braun, R. B. 13106
Braunbek, Werner 11886
Brauner, H. 3576
v. Braunmühl, Burchard ★1715
Braunss, G. 11054
Braverman, E. M. ★4210, 11688
Braverman, V. Ja. 3979
Brawley, J. V. 12722
Bray, M. 12109
Brazevič, M. V. 8481
Brazier, P. H. 11809
Breakwell, J. V. 6972
Breckner, Wolfgang W. 8106, 10954
Bredihin, B. M. 263
Bredihin, D. A. 2562
Bredihina, E. A. 10974
Brédimas, Antoine 8272, 8273
Bredon, Glen E. ★1265
Breen, Lawrence 12857
Breen, Marilyn 5970-6972, 13722
Breitenecker, M. 1962
Breitenlohner, P. 14602
Brelot, M. 7823, 10633
Brémaud, P. 4798
Bremer, Hanke 7220
Bremner, Andrew 5108
Brender, M. 12881
Brenig, L. 4286, 9528, 12071
Brennan, James E. 11042
Brenner, J. 3059
Brenner, J. L. 409, 5267
Brenner, Philip 1638
Brennich, R. H. 2880, 2881
Brent, R. P. 9069, 9073, 11843
Bresinsky, H. 2660
Bressan, Sergio 14512
Bresters, D. W. 10870
Bretault, P. 12341
Breth, M. 11646
Breuer, Reinhard A. ★4526
Breuer, S. 6640, 6648
Brewer, J. W. 5214
Brewer, John W. 9725
Brewster, Benjamin 10398
Brezinski, C. 1584, 6453, 9034
Brézis, Haim 8359, 8362, 11113, 13641
Brezuleanu, A. 12749
Briançon, J. 7843, 13122, 13123
Brickell, F. 8540
Brickhill, C. J. ★2411
Brickman, Louis 13066
Bridges, Douglas S. 7221
Bridges, W. G. 7287
Brieskorn, Egbert 5227, 10660
Briggs, D. G. 11976b *See also* 11976a
Briggs, James M. 11068
Bright, Peter B. 9099
Brill, Dieter R. 9559
Brill, Heinz 13310
Brilla, J. 6653
Brin, M. I. 6201
Brîndeu, L. 10251
Brindley, E. C., Jr. 1515
Brink, D. M. 2007
Brink, L. 14590
ten Brinke, Gerrit 12086
Brinkmann, Hans-Berndt 7176
Brioschi, Francesco ★4677
Britten, Daniel J. 12840
Brizolis, Demitrios 2643, 5168
Brjuno, A. D. 10756
B″rnev, Pet″r 11830
B″rneva, Margarita 11830
Bröcker, Ludwig 10224
Brockett, Roger W. 4174
Brockwell, P. J. 14112
Brodskiĭ, M. A. 7937
Brodskiĭ, V. Z. ★6403
van den Broek, P. M. 14591
Broer, L. J. F. 9350, 11949
Broere, J. 2623
Broffitt, James D. 6347, 11647
Broman, Arne 10124
Brombeer, R. 6460
Brøndsted, Arne 5915
Bronner, François 14120
Bronštein, E. M. 3246
Bronštein, I. U. 1187
Bronštein, M. D. 13312
Brook, Richard J. 8984
Brooks, James K. 8280
Brooks, R. J. 3951
Bros, J. 7849, 12032
Brosamler, G. A. 14124
Broucke, R. *See* 7157
Broué, Michel 2322
Broughan, Kevin A. ★13866
Broussolle, F. 14877
Brouwer, A. E. 5039
Broverman, S. 1152, 1171, 8572
Browder, F. E. 8362, 13641
Browder, Felix B. *See* ★7158
Browder, William 3719
Brown, Arlen 8336
Brown, B. M. 6408
Brown, B. Malcolm 13192
Brown, C. C. 3900, 3901, 3925
Brown, David P. 4829
Brown, Donald J. 4585
Brown, E. 6711
Brown, Edgar H., Jr. 13944
Brown, Ezra 12626, 12635
Brown, Frank Markham 4830, 14878
Brown, G. E. 9930
Brown, Gavin 3291, 5743, 5744
Brown, George F., Jr. 4019
Brown, James Ward 626, 13177
Brown, Julia M. Nowlin 12544
Brown, Kenneth A. 2716
Brown, Kenneth S. 7700
Brown, L. D. 3898, 8939
Brown, L. G. 984
Brown, Lawrence M. 13859
Brown, Leon 10610, 11037
Brown, Morton B. 1484
Brown, R. *See* Brown, Ronald
Brown, R. C. 1020, 10731
Brown, Ronald 459, 1217, 7661
Brown, S. N. 11950
Brown, Susan Alice *See* ★6337
Brown, T. C. 5166
Brownawell, W. Dale 5126
Browne, M. W. 11656
Browne, Patrick J. 10732
Browne, Seán 2882
Broyden, C. G. 6483
Brualdi, R. A. 115, 343
Bruck, R. H. 8444
Bruckman, P. S. 10914
Brückmann, Peter 5260
Bruckner, A. M. 5443
Brudynĭ, Ju. A. 5823
Bruen, Aiden A. 11168
Bruhat, François 12920
de Bruijn, N. G. 2532, ★4208, 4983, 12448, 12536
de Bruin, M. G. 13398
Brujackiĭ, E. V. ★4570
Bruk, V. M. 3469
Brumberg, V. A. ★9597
Brumfiel, G. 1220
Brun, Viggo 8453
Brunat, José M.[a] 179
Brunel, Antoine 3840, 6288, 8779
Brungs, H. H. 7537
Bruni, Carlo 2278
Brunk, G. 9225
Brunner, A. M. 7635
Brunner, H. 6529
Bruno, J. 2500, 6928, 14424
Bruno, Teresa 8019, 8020
Bruns, Günter 7335
Brusencev, A. G. 13333
Brutman, L. M. 8109
de Bruyn, G. F. C. 985
Bryant, Victor 5797
Bryce, R. A. 12896
Brydak, D. *See* 8059
Brydges, David 1975, 1976, 2056, 6832
Brylawski, Tom 7294
Brylinski, Jean-Luc 235
Bryll, Grzegorz 2441, 4954, 4962, 7206, 7313
Bublik, B. M. 1811
Bubnicki, Zdzisław 6911
Bubnov, B. A. 748, 3169, 3189
Bubnov, V. A. 4490
Bucan, G. P. 3835, 8885a-b, 14078, 14096
Bucchioni, Danièle 504
Buchberger, B. 9127
Buche, A. B. 8355
Buchholz, D. 12032
Buchholz, W. 72
Buchsbaum, David A. *See* 12735
Buchwalter, Henri 883
Buckholtz, J. D. 5534
Buckley, A. G. 6499
Bučukuri, T. V. 1786
Bucy, R. S. 3093
Budak, B. M. 1676, 3165, 4153, ★8401, ★8402
Budihardjo, Peter S. 2323
Budkin, A. I. 5085
Buehler, Robert J. 11593
Buharaev, R. G. 2359, 9897
Buhgeĭm, A. L. 767
Bühler, W. 1429, 12228
Bühlmann, Hans 4012, ★12227
Bühring, W. 665
Buhvalov, A. V. 3369a-b, 5787
Buhvostov, A. P. *See* ★2402
Bujalo, S. V. 13790
Bujanov, B. B. 2139
Bukatar′, M. I. 4364
Bukreev, V. Z. 9082
Bulataev, K. B. 2665
Buldigin, V. V. 1331, 1363, 6219
Buldyrev, V. S. ★14569
Bulgakov, A. I. 13241
Bulija, N. P. 14535
Bullen, K. E. 9928, 12159
Bullock, Thomas E. 5943, 12272
Bullough, R. K. 8054
Bulmer, M. G. 4716
Bundschuh, Peter 10159
Bunge, Mario 9967
Bunič, A. L. 14822
Bunimovič, A. I. 14545
Bunjaev, M. M. 11075
Bunjatov, M. R. 194, 195, 10094
Bunke, Helga 3980, ★11499
Bunke, O. 3981, 14203
Buoncristiano, S. ★1234, 1237
Buoni, J. J. 3442, 13594
Burau, W. 10286. *See also* ★9906
Burbea, Jacob 13096
Burčuladzde, T. V. 717, 4246, ★9233
Burd, V. Š. 13256
Burdet, C. A. 7050
Burdet, G. 1915
Burenkov, V. I. 917
Burge, R. E. 4334
Burge, William H. 1695
Burgess, Walter D. 10310
Burghardt, R. 9590
Burghelea, Dan ★1266
Burgin, M. S. 207, 5088, 5089, 12602
van der Burgt, A. T. 11665
Burillo López, Pedro J. 13612
Buriškin, M. L. 14493, 14494
Burk, Frank 9105
Burkard, Rainer E. 12201
Burke, D. K. 6058
Burke, John L. ★5290
Burke, John R. 5131
Bürker, Michael 12868
Burkhard, Hans-Dieter 4859, 9890
Burkholder, D. L. 8842
Burkinshaw, Owen 8219
Burkov, V. N. 4637
Burlačenko, V. P. 10867
Burlaka, V. S. 11887
Burljaĭ, M. F. 13368
Burman, David 3874
Burmeister, Heinz Ludwig 14817
Burmeister, Leon F. 1430
Burnham, James T. 3295, 3299
Burniston, E. E. 2037, 7879
Burno, John *See* 4173
Burns, Daniel, Jr. 3028, 7875
Burns, J. A. 5578
Burns, R. N. 160
Burns, W. D. 2008
Burov, G. A. 13478
Burr, S. A. 7308
Burroni, Albert 7576, 12853
Burshtein, E. I. *See* Buršteĭn, E. I.
Burshtein, Nechemia 217
Buršteĭn, E. I. 9218
Buršteĭn, L. V. 7144
Buršteĭn, M. I. 5040
Burton, T. A. 3072, 10802
Busarova, T. N. 5699
Busby, Robert W. 2824
Busch, Douglas R. 7258
Bush, William B. 11964
Bushard, Louis B. 3083, 6661, 10813
Bushell, P. J. 876
Buslenko, H. P. *See* ★12941
de Bustos Tovar, Eugenio 7168
Bustoz, Joaquin 5665
Busygin, V. P. 11123
Buszkowski, Wojciech 10002
Butcher, J. C. 1609, 14376. *See also* ★7160
Butera, Luigi 9327
Buti, B. 12021
Butkovskiĭ, A. G. 2282 12289, 14831
Butler, G. J. 13209
Butler, Jon T. 4831
Butler, Kim Ki-Hang ★2674
Butler, P. H. *See* 9396
Butrim, B. I. 9692
Buttelmann, H. William 6564, 6565
Button, Robert Warren 13891
Butts, Robert R. 5888

Butzer, P. L. 830, 5689, 11453. *See also* ★7162
Buyanov, B. B. *See* Bujanov, B. B.
Büyükyenerel, K. Gültekin *See* Gültekin Büyükyenerel, K.
Buzdugan, Gheorghe ★4217
Byčkov, S. N. 10668
Byczkowski, T. 11266
Byhovskiĭ, È. G. 13297
Bykov, Ja. V. 3094, 11126
Byrd, Michael E. 12483
Byrd, P. F. *See* 4042
Byrd, Richard D. 12929
Byron, R. P. 6437

C

Caballero, Emilia 10634
Caccetta, L. 10079
Caddeo, Renzo 8513
Cadete, Maria Odete Rodrigues ★6461
Cadzow, James A. 6474
Caetano Neto, E. S. 1941
Caffarelli, L. A. 1061, 13696
Caglayan, Alper K. 2311
Cahen, M. 9379
Cahill, Rotraut Goubau 10526
Cahoon, Lawrence S. 11657
Cain, Bryan E. 7499
Cain, R. G. 12384
Cairoli, R. 8857
Čakalov, V. 8103
Čakmazjan, A. V. 6005
Calapso, Maria Teresa *See* Familiari-Calapso, Maria Teresa
Calapso, Renato 3574
van Calck, J. 9518
Calderón, A. P. 5736, 10531
Calderón, C. P. 3388, 13487
Caldirola, Piero 6861
Caldwell, C. S. 1648
Calenko, M. S. ★5309
Caljuk, Z. B. 3317
Callaert, Herman 6304
Callahan, J. R. 9666
Callahan, T. 275
Callan, David 7652
Callier, F. M. 2295
Calogero, F. 4416, 14581
Calvini, P. 2083
Calvo, Bernard 2754
Camacho, Cesar 1301
Cambanis, Stamatis 4807, 8790
Camenschi, Galina 11951
Camenzind, M. 2088, 9560
Camenzind, M. A. 2088
Cameron, Joseph M. *See* ★4029
Cameron, Peter J. ★7269, 10080, 12562
Camillo, V. P. 5293
Camion, P. 12351
Cîmpan, Florica T. 9927
Campbell, C. E. 14675
Campbell, C. M. 10422
Campbell, Donald E. 4692, 9609
Campbell, Douglas M. 7768
Campbell, J. A. 11841
Campbell, L. A. 13143
Campbell, Stephen L. 5889, 12292
Campbell, W. B. 9438
Camus, Jacques 13290
Candela, Guido 14749
Candelas, P. 12022
Čan Dyk Van 710
Cane, Violet *See* 11536, 11537
Cannell, P. A. 6664
Cannings, C. 9715
Cannon, C. J. 2124
Cannon, J. R. 4131
Cannon, James *See* ★13894
Cannon, John R. 14661
Cannon, John T. 1016
Cantoni, A. 1568, 11747
Cantoni, Vittorio 6760
Cantor, David G. 5175
Cantor, M. 4553
Čanturija, Z. A. 8128
Cantwell, John 8663
Cao Chi 9472
Capek, Peter 5072
Capel, H. W. 4474, 12089
Capelo, Antonio 6641
Čapenko, V. P. 12386
Čaplygin, S. A. ★9963
Capobianco, Frank L. 13941, 13942
Capocaccia, D. 3755
Cappell, Sylvain E. 1238, 6167
Car, R. 2778a-b
Caradus, S. R. ★3434
Čarahčjan, A. A. 14698
Cardoso, Fernando 13268
Careva, B. B. 5993
Carey, Richard W. 3454, 8337
Cargo, G. T. 894
Čarkina, L. Ja. 1905
Carl, B. 11091, 11092
Carlitz, L. 2491, 2580, 4997, 7271, 7911, 12612, 12723
Carlson, B. C. *See* 12426
Carlson, James A. 596
Carlson, John W. 11283, 13860
Carlson, Jon F. 7527
Carlton, Eloise 12972
Carlyle, J. W. 11856
Carmeli, D. 14810
Carmeli, M. 2089, ★7687, 9561, 14712
Carmi, S. 6673
Carmichael, H. J. 2062
Carmichael, Richard D. 3010
do Carmo, M. 1292, 6006
Carmona, René 14065
Carpenter, John A. ★14303
Carr, J. 13267
Carr, John G. 5345
Carral, Michel 10237
Carreras, P. Pérez *See* Pérez Carreras, P.
Carrier, G. F. 6802, 6803
Carroll, C. E. 2038
Carroll, F. W. 5478
Carroll, Raymond J. 3919, 11685
Carroll, Robert W. 11415a-b
Carruccio, Ettore 12439
Carson, Ewart R. 14813
Cartan, Henri *See* ★2409
Carter, E. M. 1479
Carter, Karen S. 11284
Carter, L. L. ★4495
Carter, R. A. L. 4020
Carter, R. W. 5363a-b
Carter, William C. 1699, 2338
Cartier, Pierre 6751a-b, 7484, 12990. *See also* 20
Carton, E. 3106
Carton-Lebrun, C. 5923
Cartwright, Nancy 9496
Caruncho Castro, José R. 3688
Carvajal, Raul 4810
Carvalho, L. A. V. 5580
Casal, Ignacio 6256
Casas Alvero, Eduardo 2666
Casas-Vazquez, J. 6703
Casazza, P. G. 8243
Casciaro, R. 9276
Case, J. 4686
Case, K. M. 1942, 12070
Cashman, William T. 3103, 3104
Cashwell, E. D. ★4495
Caslin, James C. 4035
Caspi, Yaffa Machnes 9618
Cass, F. P. 5668
Cassa, Antonio 597, 13131
Casse, Louis R. A. *See* ★10024
Cassell, A. C. 9112
Cassels, J. W. S. 5133, 10213a-b. *See also* 17
Casson, A. J. 11338
Cassou-Noguès, Philippe 5186
Castaing, Charles 2907, 2908, 14102
Castaldo, Pietro 10299, 12627
Castellano, Laura 8019, 8020
Castillon, Jean-Bernard 10288
Castonguay, Charles ★2413
Castro, Alfonso 723
Casula, F. 1935
Catlin, Paul A. 5159a-b
Catlin, Seth 85
Cattabriga, Lamberto 10825
Cattaneo, Carlo *See* 8457
Cattaneo, Enrique Pedro 11110
Cattaneo, U. 10478
Cattaneo-Gasparini, Ida 11391
Caubet, Jean-Pierre 6793
Cauchon, Gérard 7552
Caudrey, P. J. 8054
Čaus, M. M. 10819
Caussin, P. 14798
Cavalli-Sforza, L. L. 2243
Cavallo, Roger 10018
Čavčanidze, V. V. 6982, 11873
Cavendish, James C. 6519
Cavin, R. K., III 9748
Cazes, P. 3982
Čeban, A. M. 10464
Cebeci, Tuncer ★4279
Čečett, G. V. 5107
Ceder, Jack 6076
Cegelik, G. G. 10580
Čeĭšvili, R. A. 9793
Ceĭtlin, G. E. 2565
Čekalin, A. N. *See* ★11725
Čekalina, G. V. 6446, 6447
Cekanovs'kiĭ, È. R. 3470
Čelidze, M. V. 789
Celigorov, N. A. 2299, 14353
Celik, Özdem 7600
Cellary, Wojciech 4623
Celmiņš, Aivars 1632
Čencov, A. G. 2224, 2225, 6970, 6977, 9695
Cepelev, N. V. 5613
Čepurin, E. V. *See* ★8934b
Cerami, Giovanna 7714
Cercignani, C. 2071
Čeredničenko, V. G. 10627
Čerednik, I. V. 12783
Čeremnyh, Ju. N. 2146
Čerenkov, A. P. 11544
Čerepanov, G. P. 6621
Čerepov, O. F. 10081
Čerepov, V. A. 9196
Ceresa-Genet, Giuseppe 12793
Cerf, V. G. 150
Čerkas, L. A. 10745
Cerneau, Simonne 4260, 7973
Černikov, S. M. *See* ★10384
Černjakov, P. S. 1905
Černous'ko, F. L. 1750
Černý, Ján 2533
Černyĭ, D. E. *See* ★9826
Černyĭ, G. G. *See* ★9235, ★9288
Černyšenko, D. N. 11762
Černyšov, A. D. 4367
Čerskiĭ, Ju. I. 33
Červjakov, I. B. 5391
Češankov, B. 4223
Cesari, Lamberto 11134, 13646. *See also* ★1040
Cesari, Yves 14868
Četaev, A. N. 14109
Četveruškin, B. N. 4074
Chaba, A. N. 4496
Chaber, J. 3646
Chabrowski, J. 3159
Chacón, E. 1936, 4377
Chacon, R. V. 8872, 10557
Chacron, M. 2736, 10341
Chadam, J. M. 1947, 1957
Chadwick, P. 4247
Chaĭ, S. M. ★5048
Chaitin, Gregory J. 1709
Chakrabarti, Aloknath 869
Chakrabarti, C. G. 14681
Chakrabarti, K. 4832
Chalkley, Roger 229, 7500
Chambers, J. M. 4059
Chambers, Ll. G. 10879
Champsaur, Paul 6904
Chan, Oliver W. C. 1577
Chan, Sang Lung 13271, 13272
Chan, Shu Park *See* ★9825
Chan, Wan S. 4771
Chand, R. 9277
Chander, Subhash 13624
Chandessais, Charles A. 2369
Chandna, O. P. 4287, 9319, 14558
Chandra, Jagdish 7928, 8377, 10721
Chandra, K. 4305
Chandra, Naresh 12068
Chandra, Prem 785, 3269, 3270, 13431, 13439
Chandrasekaran, B. 4803, 11874
Chandrasekhar, S. 2119, 4505a-b
Chandrasekhara, Rao K. 3211
Chandrasekharan, K. 2375
Chang, Chan Nan 12648, 12649
Chang, Ch'ang Hun 9337, 9338
Chang, Eugene Y. 1516
Chang, Jui Chi *See* Chang, Shui Chi
Chang, Kung Ch'ing 1835
Chang, Lena 4992
Chang, R. C. 4001
Chang, S. C. 10863
Chang, S. H. 7961, 10757
Chang, Shui Chi 5276
Chang, Sin Chung 6835
Chang, Sun Man 13548
Chang, Theodore 13954
Chanon, R. N. 14425
Chant, Verne G. 7004
Chao, Wen Min 10096
Chapman, T. A. 3708b-c, 13922 *See also* ★11336
Chapman, Tim C. 12056
Charalambous, Christakis 2208, 4096
Charalambous, M. G. 3668, 8590, 13876
Charap, J. M. 1916
Charatonik, J. J. 1182, 13874
Chari, C. T. K. 2022
Charlesworth, A. 6059
Charlesworth, B. *See* ★9718b
Charlesworth, D. *See* ★9718b
Charnes, A. 14743, 14795
Charnetski, Johnnie R. 4679
Charrier, Pierre 10902
Charris C., Jairo 2927, 2928, 10574
Chartrand, Gary 151, 7309
Chase, Gerald R. 6370
Chase, Stephen U. 12731
Chatelin-Laborde, Françoise 1656
Chatfield, C. *See* 3939
Chatham, R. E. 14703
Chatterjea, S. K. 2843, 7903
Chatters, A. W. 7522
Chattopadhyay, A. K. ★11653
Chattopadhyay, D. K. 14888
Chaturvedi, H. C. 5759
Chaubey, H. D. 3309
Chaudhry, M. L. 6318
Chaudhry, Muhammad Anwar 1677, 9886
Chaudhuri, Kripasindhu 11952
Chaurasia, V. B. L. 10695, 13165
Chavent, Guy 4752
Chawla, M. M. 1558 4068
Chawla, Mohinder 1122
Chazarain, Jacques *See* 20
Cheatham, T. J. 10338
Chee, P. S. 10642, 10664
Cheeger, Jeff 11343
Čheidze, I. M. 7095
Chekalina, G. V. *See* Čekalina, G. V.
Chela-Flores, J. 9562
Chelazzi, Mirko 9048
Chellas, Brian F. 12487b
Chen, Bang Yen 1112, 3629, 3635, 5261, 13791. *See also* ★11178
Chen, C. C. 2488, 10062, 10071
Chen, C. H. ★6594
Chen, Chin Long 9844, 12352
Chen, Chi Tsong 4854
Chen, Etang 4469
Ch'en, Hsiu Hsiung 10814
Chen, J. 5568

Chen, Jau-D. 5730
Chen, Kuang-ho 3397, 10844
Chen, Kuo Tsai 1272
Chen, Miao Sheng 5336
Chen, Ming Po 13053, 13054
Chen, Peter J. 4340, 9244
Chen, Robert 6244, 6273, 8814, 8839, 8840
Chen, Shyh Ching 4181
Chen, Su Shing 8527
Chen, T. S. 4294
Chen, Tien Wen 8947
Chen, W. T. 1703
Chen, Y. M. 14356
Chen, Y. S. 7658
Chen, Yi Der 4480
Chenais, Denise 11763, 13004
Chenciner, Alain 8702
Cheney, E. W. 3265, 5705, 11044
Cheng, Chao Kun 12649
Cheng, Charles Ching An 7585
Chēng, Ch' ing Shui 8149
Cheng, M. C. 4820. *See also* 23
Cheng, Pao Lun 1527
Cheng, R. C. H. 1536
Cheng, Shiu Yuen 11247
Cheng, Ying 7644
Chentsov, A. G. *See* Čencov, A. G.
Cherenack, P. 12787
Cherepanov, G. P. *See* Čerepanov, G. P.
Cherlin, G. L. 90
Chern, Shiing Shen 609, 10679, 13112
Chernoff, Paul R. ★5899
Chernous ko, F. L. *See* Černous′ko, F. L.
Chernyshov, A. D. *See* Černyšov, A. D.
Cherrier, Pascal 11388
Chesson, Jean 14181
Chester, Clive R. 3134
Chester, Daniel 6588
Cheung, Alan 10290
Chevalier, Jean 9563
Chevalley, Claude 10387
Chevallier, Dominique 3748, 3749
Cheverton, K. J. 14520
Chevet, S. 3436, 3831, 8771, ★8772, 14066
Chew, Kim Ho 10292
Chew, Kim Peu 6065
Chhikara, Raj S. 3914
Chiang, Shēng 4527
Chiappini Santi, Elisabetta 3200, 3201, 10582
Chiaro, Michael R. 208
Chiaruttini, Sandra 2631
Chiba, T. 5451
Chicco, Maurizio 3182
Chichilnisky, G. 12166
Chichinadze, R. K. 1805
Chichra, Pran Nath 10586, 13055
Chigarev, V. N. *See* Čigarev, V. N.
Chikriy, A. A. *See* Čikrīĭ, A. A.
Chikwendu, S. C. 3139
Chilana, Ajit Kaur 11078, 13518, 13565
Childress, C. L. 5491
Chimah, D. 6008
Ching, Wai Mee 8304, 8305
Chipman, F. H. 9086
Chipman, J. C. 5351
Chirikov, B. V. *See* Čirikov, B. V
Chisholm, J. S. R. 9500
Chistov, V. P. *See* Čistov, V. P.
Chiswell, I. M. 7631
Chiu, W. K. 8957a-b, 8958
Chmielowski, Jan 8286
Cho, Chu Kyŏng 8991, 8992
Cho, Hang Sŏk 8022, 8023
Chō, Muneo 941
Cho, Y. M. 14713
Choczewski, B. *See* 8059
Ch'oe, Sun Ch'ŏl 7952, 7956, 7957
Choi, Jae Rong 1451, 13727
Choi, Lin L. 14861
Choi, Man Duen 5843
Choi, S. L. G. 5164
Choit, Mark 6506
Chollet, Anne-Marie 588
Chŏng, Chae Pu 7921, 7922, 9087, 9290
Chong, Chee Yee 14858
Chong, F. 13706
Chong, Kong Ming 5892, 5973
Chong, Tak Yuen 6824
Choo, E. U. 2213
Choo, Seki Alexander 13557
Chopra, M. G. 1836
Choquard, Ph. 9509
Choquet, Gustave *See* ★2409
Choquet-Bruhat, Y. 11384
Choudhary, R. S. 10970
Choudhry, N. K. 9033
Choudhry, Ram Kishore 6606
Choudhury, A. K. 14888
Choudum, S. A. 12579
Chouinard, Leo G., II 5217
Chow, Gregory C. 4021, 6427, 6428, 9633, 14275
Chow, H. L. 451
Chow, Shui Nee 3753
Chow, We Min 8932
Chowla, P. 2587
Chowla, S. 222, 2587, 2622, 5177
Christ, Norman H. 14592
Christensen, Jens Peter Reus 495, 867, 8165
Christian, Ulrich 12659
Christiansen, Freddy Bugge 4712
Christiansen, Peter L. ★1884
Christie, M. R. 289
Christofides, Nicos 6948, 14789
Christov, Christo Ya. *See* Hristov, Hr. Ja.
Chu, Cho Ho 8233
Chu, John T. 1735
Chu, Kai Ching 4738
Chu, Wesley W. 9194
Chu, Yee Yeen 1572
Chua, Leon O. 2339, 12377
Chuang, S. C. 7031
Chui, C. K. 5882, 10938, 10939, 14313. *See also* ★5673
Chukwu, E. N. 13231
Chukwu, Ethelbert N. 4740
Chukwumah, G. C. 7650
Chung, F. R. K. 247
Chung, Kai Lai 3798, 8893
Chung, Lung Ock 8519
Chung, Woon Kyung 5861
Chvalina, Jan 205
Chvátal, V. 129, 2514, 2531
Chyliński, Z. 9473
Ciampi, A. ★8722
Ciarkowski, A. 6692
Ciarlet, P. G. 9113, 11806
Ciavaldini, Jean-François 1837, 9278, 9342
Čibisov, D. M. 14192
Čibrikova, L. I. 2966
Cibulskis, John M. 12152
Cicchese, Marcello 13870
Cicenia, R. A. 1551
Cichocki, B. 9514
Cichocki, K. 12167
Cicogna, G. 374
Cīdilo, K. V. 3327
Ciesielski, Z. 5680, 14165
Cifarelli, D. Michele 8959
Čigarev, V. N. 4288, ★5449
Cigler, J. 13589
Čihačev, S. A. 7239
Čikrīĭ, A. A. 2226, 4696, 4698, 4699, 12235
Čilin, V. I. 198, 10226
Cima, Joseph A. 13085
Cimatti, Giovanni 1787
Ciment, Melvyn 4125
Čimev, K. N. 55, 4917
Çinlar, Erhan 1413
Cinquini, Silvio 11154
Ciorănescu, Ioana 5904
Cirelli, Renzo 2870. 9424, 9425
Cirel′son, B. S. 887
Ciric, I. R. 705, 7904
Čirikov, B. V. 650
Čirka, E. M. 598, 5473
Cîşlaru, Cornel 9165, 14448
Cissoko, Mahdy 11971
Čistjakov, G. P. 8791, 11445
Čistjakova, A. Š. 14491
Čistjakova, E. M. 1653
Čistov, V. P. 12376
Citlanadze, K. È. 13967
Ciubotariu, Corneliu D. 6678
Ciucci, G. 2778a-b
Claasen, Theo A. C. M. 12295
Claesen, G. 4658
Clancey, Kevin F. 3320
Clapham, C. R. J. 7314, 7315
Clark, Colin W. ★4728
Clark, D. N. 2976
Clark, David M. 10105
Clark, James H. 4216
Clark, Peter K. 4022a. *See also* 4022b
Clark, R. S. 8540
Clark, T. E. 4417
Clark, W. Edwin 2764
Clarke, C. J. S. 12126, 12127
Clarke, Frank H. 1047, 2209, 3540, 13005, 13667
Clatworthy, Willard H. ★4029
Claude, Daniel 5310
Clauss, U. 4697
Claybrook, Billy G. 6546
Cleaver, Charles E. 13549
van Cleemput, William M. ★7090
Clemens, C. H. 10279. *See also* 17
Clément, G. 12023
Clements, D. L. 11915, 14497, 14513
Clemhout, S. 12236
Clerc, Jean Louis 13476
Cléroux, Robert 4065
Cleveland, W. P. 14276
Cliff, A. D. 1529
Clifford, A. H. 2855, 7671
Climescu, A. *See* 8059
Cline, R. E. 2183, 14775
Clique, M. 9766
Coates, John 2599
Coates, Martin 7612
Čoban, M. M. 7266
Čobanjan, S. A. 11425
Čobanov, Ivan 4281, 11899
Čobanov, S. 12194
Coburn, L. A. 3495
Cobzaş, S. 13012
Cochran, Allan C. 13825
Cockayne, E. J. 119, 161
Cockerham, C. C. 9716
Coda, A. 12944
Coddington, Earl A. 3503
Cody, W. J. *See* 12426
Coen, Salvatore 5495
Coeuré, Gérard 7850, 7853
Coffman, E. G., Jr. 6928. *See also* ★4159
Cogley, Allen C. 1838, 4557, 9296
Čogošvili, G. S. *See* 4883
Cohen, Arjeh M. 10437
Cohen, Arthur 3898, 3926, 14204
Cohen, Arthur I. 2256
Cohen, Ayala 6441
Cohen, Donald S. 13224. *See* ★6701
Cohen, Edward L. 12636
Cohen, Fred 13899
Cohen, H. A. 14644
Cohen, Henri 10207
Cohen, J. W. 1415, ★8917
Cohen, Joel E. 8948
Cohen, Leon 6787, 12064
Cohen, M. E. 7912
Cohen, Miriam 346
Cohen, Paul E. 12522. *See also* ★4977
Cohen, Vidal 8875
Cohn, Harry 6283, 11506
Cohn, Harvey 273, 10201
Cohn, J. H. E. 10140
Cohn, Leslie ★10496
Cohn, P. M. ★2728, ★10334, 12511a-b, 12814
Coĭ, É. V. 4651
Coĭ, S. ★5048
Coifman, R. R. 843
Čoka, G. 5975, 5976
Colantoni, C. S. 4572
Colautti, Maria Pia 9092
Colburn, Bruce K. 9775
Cole, G. H. A. ★11881
Cole, Joseph D. 4573
Cole, Michael *See* ★1121
Coleman, B. D. 4706, 9710a-b
Colin de Verdière, Y. 14015
Collas, Peter 9409
Collatz, L. 3240, 3254, 7994, 11817. *See also* ★106
Colli Franzone, Piero 5615
Collier, J. B. 13723
Collier, James B. 13534
Collier, Rainer 6851
Collino, Alberto 5231, 10252, 12767
Collins, C. B. 2116
Collins, J. C. 9474
Collins, Michael J. 13708
Collins, P. A. 2117, 9411
Collinson, C. D. 4528
Colliot-Thélène, Jean-Louis 2657
Collison, Joseph E. 7418
Colloi Pellegrini, Maria 6613
Colombeau, J. F. 8287
Colombo, Bernardo 9933
Colvert, Robert E. 6432
Combes, François 3429
Combot, J. P. 9791
Comfort, W. W. 13867
Comincioli, Valeriano 1869
Comins, H. N. 9731
Comrie, L. J. *See* ★4032
Comstock, Craig 3068, 13359
Comte, Pierre 4089, 11764
de Concini, C. 10305, 12007
Congedo, Giuseppe 13499a-b
Coniglio, Antonio 14682
Conlan, J. 10986
Conley, C. 7951, 11397
Conlon, Lawrence 8663
Connell, E. H. 2634
Connes, A. 946
Connes, Bernard 10975
Connor, Willard G. 2581
Connors, Edward A. 7378
Constable, Robert L. 1696, 4166, 4182, 14426
Constantin, Gheorghe 3666
Constantine, A. G. 3966
Constantinescu, Corneliu 3001, 5430, 5431, ★7817
Constantinescu, F. 8880
Consul, P. C. 3909, 9028, 11607
Conti, R. 11150
Contopoulos, G. *See* 7157
Contou-Carrère, Carlos E. 11344
Conway, J. H. 7604, 10141
Conway, John B. 13627
Conze, Jean-Pierre 5437
Cook, Craig M. 1721
Cook, P. A. 2297
Cook, P. M., II 12740
Cook, Stephen 6547, 7215, 9166
Cook, Thurlow A. 3373
Cooke, George 10201
Cooke, Kenneth L. 4717
Cooper, Nejat M. 7052
Cooper, J. L. B. 180
Cooper, Jeffery 3184
Cooper, Joan 10045
Coopersmith, Lewis 8941
Cooperstein, Bruce N. 383
Copas, J. B. *See* 3939
Copernicus, Nicolaus *See* ★12414
Coppel, W. A. 11128
Čorajan, O. G. 14803
Corballis, M. C. 11658
Corbett, J. V. 14627
Cordero, L. A. 1248
Cordero, Patricio 12128
Cordes, Craig M. 5113
Cordier, Jean-Marc 8579
Cordoba, Antonio 7732, 8132
Corduneanu, C. 13513
Corfmat, J. P. 7059
Corluy, R. 6986
Cormack, R. M. 14137. *See also* 1529, 11536, 11537

Cormier, Romae J. 103
Cornalba, Maurizio 7459
Cornea, Aurel ★7817
Cornell, John A. 6397
Corner, A. L. S. 10442
Cornet, Bernard 4586, 12226
Cornette, James L. 14811
Cornille, H. 6721
Cornish, William H. 2560, 10091, 12589
Corones, James 12078
van der Corput, Johannes G. *See* 12448, 12449
Corradi, Leone 1788, 1812
Correas, J. M. 4555
Corrigan, E. 1917
Corrigan, T. M. 9412
Corrington, Murlan S. 4043
Corsini, Piergiulio 10469
Corson, H. H. 13965
Corwin, Lawrence 468, 2865, 12967, 12979
Corzatt, Clifton E. 5096
Cossey, John 5352, 12927
Cossi, Ernesto Bruno 8555
Costa, Douglas L. 300, 10241
da Costa, Newton C. A. 12490
da Costa, R. C. T. 6804
Costa de Beauregard, Olivier 9564, 12057
Costabile, F. 4108
Costal, J. B. 8384
Costinescu, Olga 7733
Cotellessa, R. F. 4838
Cotta-Ramusino, P. 9424
Cotter, Sarah C. 6404
Cotton, J. W. 12258
Couchot, François 10335
Couot, Jacques 14243
Courant, R. ★9284
Courant, Simon 957
Courbage, M. 6761a-b
Courcelle, B. 4165
Courgeau, Daniel *See* ★9718a-b
Courtade-Coulomb, Geneviève 10604, 10998
Courtois, P.-J. 1697
Coutris, N. 9245
Couture, Raymond 2732
Cover, T. M. *See* 9915
Cowan, D. D. 150, 2519, 14471
Cowin, Stephen C. 1822, 4266, 9301, 9302
Cowling, Michael 12980
Cox, D. R. 1371. *See also* 1447, 3939, 6338, 6344, 11595
Cox, Jerome R., Jr. 4101
Coy, Wolfgang 4833
Coz, Marcel 12031
Cozma, C. 9303
Cozzarelli, F. A. 11973a-c
Cozzens, J. H. 7515, 7524. *See also* ★10306
Cozzolino, John M. ★6890
Craig, William ★91
Crain, Bradford R. 3948, 14218, 14251
Craine, R. E. 6657, 6658, 9295
Crandall, Michael G. 8367
Crapo, Henry H. 7293, 10290
Craven, B. D. 2900, 4628
Craven, Thomas C. 12758
Craw, I. G. 8292
Crawley, Winston 5380
Creangă, Ion *See* 8457, 12451
Crenshaw, J. A. 13013
Crespi-Reghizzi, S. 9167, 9168, 14449
Cresswell, M. J. 2421
Crick, F. H. C. 2241
Crimmins, Thomas R. 9832
Criss, T. 12135
Cristea, Gh. 14683
Critchfield, Charles L. *See* ★8065
Critchley, R. H. 4477
Crittenden, Richard B. 1090
Cronin-Scanlon, Jane 7958
Cross, Donald C. 10125
Cross, Joe 889
Cross, R. W. 13528
Crossley, J. N. ★2411, 4963, 7234
Croucher, John S. 6978
Crouse, C. F. 11718
Crouzeix, Michel 14377
Crownover, Richard M. 5836
Crubellier, A. 6740
Cruceanu, Stefan 14785
Cruceanu, V. 8496
Crumeyrolle, Albert 8657, 12129
Crump, K. S. 1407
Crupi, Giovanni 9354
Cruthirds, John E. 2632
Csákány, B. 2563
Csáki, Frigyes ★7008
Császár, Ákos 6072
Csendes, Z. J. 1895
Csernyák, L. 3274
Csima, J. 343
Csiszár, I. 8773, 8780, 14863. *See also* 9494
Csörgő, M. 3784, 3805, 3806
Csörgő, Sándor 8952
Čubarikov, V. N. 248, 7397
Čučaev, I. I. 5790
Cuculescu, I. 11507, ★11723
Čuda, Karel 2461
Čudakov, N. G. *See* 6
Cudnovs'kiĭ, G. V. 10164, 12670
Čujanov, V. A. 4494
Čulík, K. 9128, 11853
Cummings, L. J. 5279, 7495
Čunihin, S. A. 2, 2797
Cunliffe, Stella V. 3891, 3892
Cunsolo, J. 508
Cuppens, Roger 8792
Curci, G. 6762
Curelaru, L. 3927
Curran, P. M. 2834
Currie, R. 7108
Curtain, Ruth F. 12310
Curtis, Charles W. 10429
Curtis, P. C., Jr. ★903
Curzer, Howard 3658
Cushing, J. M. 5924
Cusick, T. W. 10165
Cusimano, M. 9046
Cuzick, Jack 8821
Cvetanov, Mitko 13378
Cvetkov, A. P. 11953
Cvetković, Dragoš M. 2534, 5049, 10066
Cvik, L. B. 11938
Cvitanović, Predrag 9380
Cyrenova, V. B. 11200
Czajsner, Jerzy 2446
Czayka, Lothar ★4734
Czech, Adam 8867
Czelakowski, Janusz 10095
Czerwik, Stefan 5656, 5659, 11302, 13252. *See also* 8059
Czyż, J. 1151

D

Daboul, Jamil 9353
Dacunha-Castelle, Didier 3370
Dadaev, Ju. G. 12353
D'Addario, Raffaele *See* 9937
Daffara, R. 2317
Dagan, G. 9329
Dag'ja, R. S. *See* Dahiya, R. S.
Dagnino, C. 11739
D'Agostino, Ralph B. 14205
Dague, Philippe 12981
Dahiya, R. S. 3051, 5589, 13479
Dahn, Bernd I. 4925, 12491a-b
Dai, Taen-yu 7352, 12598
Dajan, S. V. ★9189
Dale, Louis 12839
Dalec'kiĭ, Ju. L. 8835, 10880, 11478
Dařek, K. 10143
van Dalen, D. 12468
Dales, H. G. 5840
Daley, D. J. 8793, 11422
Daley, R. P. 1710
Dall'Aglio G. *See* ★1328
Daly, John T. 13570
D'Amato, L. P. 7117
Damm, Heinz 13663
Damon, James 6184
D'Amore, Bruno 162
Dandapat, B. S. 4289
Daneš, Josef 3743, 5803, 6110
Danesh-Naruie, G. 1217
Danet, Pierre 6212
Dang, N. D. P. 1547
D'Angelo, Henry ★4730
Danhof, K. 2494
Dani, S. G. 7746
Dan-i, Takeshi *See* 12453
Daniel, James W. 800, 1589
Daniel, Klaus 14801
Daniel, Lesley M. 2166
Daniel, M. 12130
Daniel, Michael 2010
Danieljan, È. A. 3876, 11550, 11551, ★11552
Daniels, C. 46, 47
Daniels, H. E. *See* 3891
Daniels, Richard W. ★9856
Danil'čenko, T. N. 4695
Danilenko, I. F. 5790
Danilevič, A. A. 7800
Daniljuk, I. I. *See* 6
Danilov, Ju. A. *See* ★2404
Danilov, V. N. 1811
Danilovič, V. P. 7737
Dankel, Thad, Jr. 2522
Danloy, B. 4076
Danø, Sven ★2181, ★2182
Danon, Chaim 13489
Danos, Michael *See* 12426
D'Ans, G. C. 4612
Dantas, Carlos Alberto Barbosa ★6336
Dantoni, Giovanni 12600
Dantzig, George R. 12443
D'Anzelo, G. *See* D'Angelo, Henry
Dao Hyu Ho 1435, 11608
Da Prato, G. 8347, 12038, 13647
Dar, Tamar 12168
D'Archangelo, J. 10629
Darchen, Jean-Claude 10649
Darhovskiĭ, B. S. 3952
Darinskiĭ, Ju. V. 12289
Dark, R. S. 7538
Daróczy, Z. 9848. *See also* 8059
Darst, R. B. 11487
Das, Ashok 2011
Das, Chandrasekhar 6912
Das, P. C. 5706
Das, Phullendu 11270
DasGupta, Chaitali 4741
Das Gupta, S. 1478, 13008
Dash, A. T. 13595
Dashen, Roger 6712
Dassow, Jürgen 4939, 7453
Datko, Richard 9788
Datta, B. N. 2693
Datta, K. B. 12269
Datta Majumdar, S. 9381
Daubeze, P. 4002
Dauchet, Max 4197
Dauer, Jerald P. 1048, 3555, 3559
Daumens, M. 11204a-b
Dauscha, Wolfgang 4872
Dautcourt, G. 12131
Dautov, Š. A. 3009
Dave, J. V. 1546
Davenport, James M. 11610
Davenport, John W. 931
Davenport, S. M. 1636
Daverman, Robert J. 8643, 8645
Davey, Brian A. 192
David, F. N. 4016, 4017, 14197
David, John E. 10242
Dávid, L. *See* 2138
Davidon, W. C. 6500
Davidovič, Ju. S. 6291
Davidson, R. *See* Davidson, Rollo
Davidson, Roger R. 11631
Davidson, Rollo 8881
Davies, E. B. 1977, 14628, 14829
Davies, Joan 2472
Davies, K. T. R. 12039
Davies, Laurie *See* Davies, P. L.
Davies, N. 14277. *See also* 14278
Davies, P. L. 11473
Davies, P. T. 1916
Davies, R. B. *See* 1529
Davies, R. W. 12039
Davis, Basil 5516
Davis, Burgess 6260, 10967
Davis, Charles 7192
Davis, Charles R. 12366
Davis, Constance ★410
Davis, E. H. 11943
Davis, Gary 5075, 7350
Davis, M. H. A. 6261, 6262
Davis, Paul Wm. 7928, 10721
Davis, W. R. 6680
Davis, Wayne A. 9859
Davison, Edward J. 12293a-b, 14819. *See also* 12294
Davitadze, D. B. 9238
Davtjan, R. S. 5724, 10971
Davy, Pamela 11440
Davydov, È. G. 4638
Dawid, A. P. *See* 3939
Dawson, David F. 5664
Day, Richard H. 14752
Day, William B. 1633
Dayanithy, K. 8244
Daykin, D. E. 159, 2488, 4993, 4994, 10062, 10071
Dazord, Jean 8332
De, Saurendra Nath 9246
De, U. K. 9550, 9565
Deaibes, Ali 3659
Deák, J. 5446
De Angelis, D. L. 9726
D'Eath, Peter D. 4529
Deaven, Dennis G. 12158
Debacker-Mathot, Fr. 1918
Debehogne, H. 6885
Debiard, Amédée 3038, ★7818
De Blasi, F. S. 8060, 13656
Debnath, L. 14804
Débordes, O. 4267, 11925
Dębosz, Jerzy A. 165
Debreu, Gerard 6905
Decarlo, R. A. 1038
Decuyper, Marcel *See* 8457
Deczky, Andrew G. 7118
Deddens, James A. 968
Dedecker, Paul 2763, ★13955
Dediu, Mihai 6154, 6155, 8498
De Donato, Osvaldo 1788
Deely, J. J. 1427
Deeming, T. J. 1687
Defalque, B. 7069
DeFranco, R. J. 5758
Defrise-Carter, L. 11221
Degani, Cattelani F. 13992
Degasperis, A. 4416, 14581
Degen, W. ★1064, 5957, 8467
De Giorgi, Ennio 10825
De Grande-De Kimpe, Nicole 890, 3408, 11020
Degtev, A. N. 9997, 12505, 12506
Dehen, Danièle 8891
Dehen, Michèle *See* Mastrangelo-Dehen, Michèle
Deheuvels, R. 13914a-b
Dehon, Michel 10039
Dehtjar', Mihail I. 4942
Deignan, Daniel J. 10631
Deĭneženko, A. L. 14338
Deistler, M. 4023
Dekker, J. C. E. 7235
Dekleva, Janez *See* 7149
Delale, J. P. 5286
Delaroche, Claire 3429
Delbaen, F. 13571
Delbosco, Domenico 3675
Delbourgo, R. 6789
Del Centina, Andrea 10687
Delchambre, M. 3090, 6601
De Leon, M. J. 7365
Delforge, Jacques 14823
Deligne, P. ★5232, 5233, 10659, 12991. *See also* 14, 19, 20
Deliyannis, Platon C. 1909
Dellacherie, C. 14084
Dell'Antonio, G. F. 12083
Dellavalle, G. 9106
Delone, B. N. 1068, 12926
Delorme, Charles ★2371, 7477
Delorme, M. 2844, 5374, 5375
Delorme, Patrick 2885
de Del Pino, M. E. N. 10988
Del Prete, Immacolata 5916
Delsarte, P. ★4811

Delsarte, Philippe 107, 7119
De Luca, Aldo 7104
Delves, L. M. 1578
Delvos, Franz-Jürgen 801, 1540, 3230, 5707
Demaria, Davide Carlo ★6053a-b, ★6054
DeMarr, Ralph 7352
De Matteis, Artenio 1466, 14662
Demazure, Michel 2670, 7458, 13124
Dembowski, P. *See* 13716
Demers, A. J. 14450
Demers, Luc 3692
Demetrašvili, N. G. 1643
Demetrovics, J. 58
Demeyer, F. R. 320
Demiański, M. 4506, 6873, 8537
Demidov, A. S. 3771
Demidovič, B. P. ★2370
DeMillo, R. A. 9129
Dem′janenko, V. I. 9279
Demjanov, V. F. 9683 12207
Demko, Stephen 3231
Demmig, F. 4130
Demopoulos, William 12004
Dempster, A. P. *See* 1447, 6338
Dempster, M. A. H. ★4569
Dempwolff, Ulrich 2771
Demuth, M. 13603
Demyanov, V. F. *See* Demjanov, V. F.
Denčev, Račo 1978, 13637
Dendy, J. E., Jr. 1657, 6516
Deneva, Sonja 13301
Denis, J. 6887
Denisenko, O. S. 12398
Denisov, Ju. M. 14663
Denjoy, Arnaud *See* ★2409
Denkmann, Norbert ★9900
Denman, H. H. 4034
Dennis, J. B. 9130
Dennis, J. E., Jr. 11758
Dennis, R. Keith 279, 10238, 12872
Dennler, G. 1332
Denny, William F. 13500, 13501
Denoyelle, J. 6887
Dent, Warren T. 6347
Deny, Jacques 7822
Deo, Chandrakant M. 8798
Deo, S. G. 13226
Depeyrot, M. *See* 9494
Deprit, André 13993
Der, R. 14664
Derbenev, S. A. 9304
Derdziński, Andrzej 12153
DeRemer, Frank 9131
Derendjaeva, O. V. 6481
Derenzo, Stephen E. 11735
Derguzov, V. I. 3117. *See also* 22
Derighetti, A. 856, 10476
Derjugin, I. A. 1979
Derman, Cyrus 2171
Derrick, W. 10716
Derridj, Maklouf 1312, 3766, 8015
Derriennic, Yves 11508
Derviş̧oğlu, Ahmet 7120
Deryugin, I. A. *See* Derjugin, I. A.
Desai, Pushpa 13755
Desai, Uday B. 4792
DeSantis, Romano M. 4753
Descloux, J. 1658
Deser, S. 12024, 12125
Deshouillers, Jean-Marc 5149, 5165, 12699. *See also* 7414
Deser, S. 4391
Deshpande, V. L. 7884, 10696
DesMarais, P. 2340
Desoer, Charles A. 2341, 4771, 7120
Dessard, A. 1082
Dessì, N. 11776
Desu, M. M. 11628
Deszcz, Ryszard 11210, 13756
Detlefsen, M. 2555
Détraz, J. 8293
Deussen, P. 4191
Deutler, T. 1429
Deutsch, E. S. 14465
Deutsch, Michael 2436
Deveney, James K. 5201, 7442
Devi, K. Malliha 8566
Devlin, Keith J. 4981
Devore, Jay L. 6414
DeVore, Ronald 836, ★8100
De Vylder, Fl. 9027
Dewdney, A. K. 10026
Dewess, Günter 11673
Dewilde, Patrick 2700, 4749, 5269
DeWitt-Morette, Cecile 4443. *See also* 7157
Dey, A. 12538
Deyst, John 7086
Deza, M. 10082, 12351
Dezaniciancaglini, Mariangiola 1694
Dharmadhikari, S. W. 1341, 3799
Dhawan, G. K. 3054
Dhombres, J. G. 2745, 7680
Dhooghe, P. F. J. 13808
Dhrymes, Phoebus, J. 6438
Diab, F. M. 2936
Diaconescu, Radu 2757
Diaconis, Persi 10178
Diamond, Ainsley *See* ★10927
Diamond, Harold G. *See* 17
Diamond, Martin 9063
Diamond, Phil 5653
Dias, Francisco J. O. 9857
Dias, João-Paulo 8015, 8368
Diaz, J. B. 638
Dibag, I. 11228
Di Bari, Cristina Maria 7719
Di Carlo, A. 9276
Dicke, A. *See* 4397
Dickey, James M. 6377, 8968. *See also* 3944
Dickey, R. W. 4248
Dickinson, Bradley 4746
Dickman, R. F., Jr. 8592
Dicks, Warren 12814
Di Comite, Claudio 6016, 8510
Dicuonzo, Vincenzo 8431, 8439
Diday, E. 1736, 11664
Didenko, V. P. 5874
Diderrich, George T. 9849
Dididze, C. E. 2361
Didierjean, André 8677
Didkovskiĭ, V. N. 14319
tom Dieck, Tammo ★11368
Diederich, J. R. 7814
Diefenbach, L. 3983
Diem, N. D. 2223
Dierker, Egbert 14750
Dierker, Hildegard 2147
Dierolf, Suzanne 3349, 3439, 5783
Diers, Yves 5318, 7577
Diersch, Hans-Jörg 1870
Diesperov, V. N. 11954
Diesperova, M. M. 14213
Diestel, J. 1003, 7740
Dietrich, C. F. ★1519
Dietrich, Wolfgang 1641
Dietz, Werner 4231
Dieudonné, Jean 7507, 12412
Diggle, Peter J. 9727. *See also* 1529
Dighton, Kenza 9475
Diguglielmo, Alain 1659
van Dijk, G. 2890. *See also* ★2889, 9915
Dijkstra, Edsger W. 14435
Dikalov, A. I. 11930
Dikovskiĭ, A. Ja. 6580, 14451
Dikshit, G. D. 3271
Dikshit, H. P. 3268
Diliberto, Stephen P. 7925
Dillon, J. F. 286
Di Martino, Lino 5340
Dimentberg, M. F., Jr. 10779
Diminnie, Charles R. 11116, 13544
Dimitrijević, Radoslav 8582
Dimitrov, Bojan N. 1416, ★8871, 11553, 14146, 14147
Dimo, P. 9858
Dinculeanu, Nicolae 8280
Dineen, Seán 11057, 11058
Dinev, Mihail 12169
Dinghas, Alexander 550
Dinh Van Huynh 12822, 12826
Dinkel, J. J. 4664
Dinur, U. 4418
Diophantus of Alexandria *See* ★2584
DiPillo, Gianni 2278
Dirac, P. A. M. 4520
Dirdal, Gunnar 10136
Dirksen, P. H. 2501, 10052
Dischinger, Friedrich 10321
Diskant, V. I. 11175
Ditchep, Ryszard 11694
Ditor, Seymour 6071
Ditters, E. J. 7485, 7486
Dittrich, Gisbert ★9891
Dittrich, W. 9439
Ditzian, Z. 8102, 10945
Diviccaro, Maria Luigia 3676
Diviš, Bohuslav 10173. *See also* 12462
Dixit, V. N. 5361
Dixmier, Jacques 7564, 12843
Dixmier, Suzanne 2517
Dixon, E. T. 10072
Dixon, L. C. W. *See* ★9653
D′jačenko, S. V. 1017
D′jačkovckiĭ, S. V. 1398
Djad′kov, Sergej 12450
D′jakonov, Evgeniĭ G. 14394
Djakov, Plamen *See* Džakov, P. B.
Djatlov, V. N. 5798
Djoković, D. Ž. *See* Đoković, Dragomir Ž.
Djordjevic, B. *See* 2138
Djordjević, R. Ž. *See* 8059
Djukalov, A. N. 12170a-b
Djukic, Dj. *See* Đukić, Đorđes
Dloussky, Georges 10663
Dmitriev, N. M. 1839
Dmitriev, V. I. 11558
Dmitruk, A. V. 13683
Dmowska, R. 14515
Dobbertin, R. 9542, 9543
Dobbs, David E. 5211, 5212, 12753
Dobek, A. 9068
Dobkin, David 4174, 4175, 11844, 11845
Dobresou, Eugen 11268
Dobrev, V. K. 9476a-b
Dobrotvorskiĭ, A. S. 1096
Dobrušin, R. L. 4481, 9544, 12074
Dobruškin, V. A. 4249
Dobrynskiĭ, V. A. 8733, 8734
Docenko, A. I. 12303
Dočviri, V. M. 11702
Dodds, Peter 8219
Dodon, A. M. 648
Dodonov, V. V. 1948
Dodson, M. M. 5147
Dodunekov, S. M. 7105
Doi, Masao 14556
Dokas, L. 4964
Đoković, Dragomir Ž. 2687, 7601, 10353
Doksum, Kjell A. 14179
Doktorovič, A. B. 9188
Doktorskiĭ, R. Ja. 3150
Dolan, S. W. 2737
Dolbilin, N. P. 8428
Dolby, G. R. 8960
Dold, A. ★ 3685
Doléans-Dade, Catherine 1387, 6276
Dolecki, Szymon 12209
Doležel, Lubomír *See* ★11869, ★11870
Dolgačev, I. V. 305. *See also* 9
Dolja, V. V. 3101, 9221
Dollard, John D. 4419
Dolženko, E. P. 13409
Domanus, Henry M. 4557
Domar, Yngve 859
Domenico, B. A. 4561
Domine, Robert 7493
Domínguez, E. 11359
Domínguez Murillo, Eladio 11360
Domokos, L. *See* 2138
Domorjad, A. P. 6462
Donaghey, Robert 2475
Donaldson, James A. 7985
Donath, G. 2899
Donato, Andrea 3178
Dončev, Asen L. 2269
de Doncker, E. 14321
Dondi, P. H. 4378
Donec, G. A. 130, 163
Doney, R. A. 8902
Donig, J. 7796
Donkov, A. D. 9477, 9478a-b, 9479a-b, 9480
Donley, Joyce L. 7605
Donnelly, Harold 1132, 3636, 8755
Donner, Klaus 13530
Donsker, M. D. 13336
Dontchev, Asen L. *See* Dončev, Asen L.
Doob, J. L. 8817
Doob, Michael 12574
Dooley, A. H. 5844
van Doorn, A. J. 7005
Döpp, Klemens 7140
Dor, L. E. 5804, 8258
Dorato, Peter 2257
Dorea, Chang C. Y. 3868
Dorfman, G. Ja. 9663
Dorfman, I. Ja. 3403, 13970
Döring, Peter 12286
Dorn, G. *See* 13720
Dornfeld, Engelbert 1073, 13711, 13761
Dorofeev, I. F. 11765
Dorogovcev, A. Ja. 1348, 3912, 6367, 6367, 6368, 11692, 11640, 14279a-b
Doronin, V. G. 802
Doroškevič, A. G. 9574
Dorris, Ann D. 2530
Doržgotov, A. 6419
Dosiev, A. A. 5640
Doss, Halim 14098
Doss, Raouf 13469, 13470
Dotsenko, A. I. *See* Docenko, A. I.
Dotson, W. G., Jr. 11084
Douady, Adrien 10656. *See also* 12778
Doubilet, Peter 7508,
Doucet, P. G. 14452
Dougalis, Vassilios A. 11811
Douglas, Bruce E. *See* 7157
Douglas, Jim, Jr. 14546
Douglas, R. G. 13605
Dowker, J. S. 6713, 6752, 12058
Downarowicz, Małgorzata 7851
Downum, Philip B. 13570
Dowson, H. R. 5898, 11100
Doyen, Jean 5041
Doyle, P. H. 13925
Drabbe, Jean 12469
Dragalin, A. G. 66
Dragan, I. 12451
Dragnev, M. V. 13743
Drahlin, E. H. 11766
Drahlin, M. E. 3472
Drake, David A. 5011, 5963, 5964. *See also* 13720
Drane, Wanzer 11602
Drange, Hans Birger 12087
Draper, Richard N. 5219
Drehmann, J. 10875
Dresden, M. 4368
Dress, Andreas 12873
Dress, François 7414, 12692
Dressler, Robert 7373, 8161
Drew, Donald A. 6665
Drew, Stephen A. W. 12183
Drewniak, Józef 6111
Drewnowski, Lech 5776, 10550, 11097
Drèze, Jacques H. 11716
Driessen, L. M. H. E. 7106
Driessler, W. 4411, 12040
Drinfel′d, V. G. 10281
Drogomiž̌′ka, M. M. 10293
Drouot, R. 9339
Drozdov, N. D. ★2671
Droz-Vincent, Philippe 6198
Drožžina, L. V. 5691
Druffel, L. E. 2515
Drygas, H. 6382
Dube, Arun Prabha 8177
Dubey, G. C. 13766
Dubey, S. K. D. 3616
Dubikajtis, Lech 1074
Dubilovič, V. M. ★4777
Dubin, D. A. 2048
Dubins, Lester E. 13029
Dubinskaitė, J. 11454, 11455
Dubinskiĭ, Ju. A. 702, 8261
Dubinsky, Ed ★8229
Dubois, Eugène 10157
Dubois, Jacques 4665
Dubois, Jean-Guy 13971, 13972
Dubov, Ja. A. 14782
Duchoň, M. 31
Dudley, R. M. 2905, 3807, 3827a-b, 6292, 14097
Dudučava, R. V. 994-996, 1023
Duff, I. S. 14339
Duff, M. J. 4391, 12024
Duffin, R. J. 4369
Duflo, Michel 12973
Dufour, Jean-Paul 13971, 13972
Dufrenoy, Jean *See* 9952
Dugas, Manfred 8446
Duggan, R. C. 14519
Duhoux, Michel 11022

Duišeev, È. D. 5765, 5767
Duistermaat, J. J. 11416, 13984
Dujols, René 2439
Đukić, Đorđes 1759, 4235, 9222
Dulov, V. G. 6666
van Dulst, D. 5883
Dumitru, D. R. 6729
Dumkin, V. V. 2952
Dummett, Michael ★9985, ★9986. *See also* 4913
Dumons, Bertrand 464
Dumortier, F. 11392
DuMouchel, William H. 6434
Dunau, Jacques 1316
Duncan, D. P. 2090
Duncan, David B. 1496
Duncan, George T. 9850
Duncan, John ★11013
Duncan, Richard 8882
Duncan, T. E. 3844
Duneau, M. 12088
Dunford, Nelson ★1009
Dunham, Bradford 14464
Dunham, Charles B. 5693
Dunham, Robert S. 1671
Dunlap, B. I. 1919
Dunlop, François 2057
Dunn, J. Michael *See* 2430
Dunn, K. A. 12132
Dunne, Patrick W. 3068
Dunninger, D. R. 10781
Dunwoody, M. J. 13893
Duong-Kien, C. 9176
Dupač, Václav 14269
Dupont, Johan L. 1243, 13929
Duport, Jean-Pierre 12867
Dupré, Maurice J. 3435
Durand, Alain 5124
Durand, Loyal 10712
Durand, Robert 7573
Durdil, Jiří 3743, 3744, 13968
Duris, C. S. 1587
Dürr, H. P. 6790
Duske, J. 10461
Dussaud, René 12867
Dutčak, B. Ĭ. 8061
Dutt, John E. 3967, 3968
Dutt, R. C. 4532
Dutt, Ranabir 11896
Dutta, M. 11717
Dutton, John A. 4290
Duvaut, G. 14522
Dvořák, A. V. 5549
Dvoretzky, Aryeh 3808, 3839, 8799
Dvornikov, V. Ĭ. 7970
Dwan, Michael 7612
Dwivedi, A. P. 5760
Dwivedi, Pt. I. H. 9598
Dwivedi, R. P. 6679
Dwyer, Thomas 6180
Dydak, J. 1157, 1158 8626
Dye, R. H. 2830
Dyer, Eldon 8648
Dyer, Micheal N. 3691, 13907
Dykstra, Richard L. 11632
Dym, Clive L. ★14523
Dyment, D. A. 13242
Dynin, A. S. 8742, 11410, 11411
Dynkin, E. B. 14121
Dyson, F. J. *See* 14
Dyson, J. 13267
Dyukalov, A. N. *See* Djukalov, A. N.
Džabrailov, A. D. 3386
Džagmaidze, A. Ja. 1794
Džakov, P. B. 11021
Džanelidze, G. Z. 10379
Džavadov, M. G. 5602
Džavahišvili, I. N. 6412
Džavelidze, N. Š. 3285
Džgarkava, N. N. 6836
Dzhunuzbekova, Saule *See* Džunusbekova, S. S.
Dziobiak, Wiesław 9978
Džiškariani, A. V. 4311, 6530
Dziubdziela, W. 6231, 8800
Dzjadik, V. K. 9946
Dzjuba, N. N. 3547
Dzjubenko, G. C. 2226
Džoldošev, O. D. 695
Džrbašjan, M. M. 3074, 7175
Dzuitt, Robert *See* Jewett, Robert I.
Džumaev, S. 4090
Džunusbekova, S. S. 8200
Dzyubenko, G. Ts. *See* Dzjubenko, G. C.

E

Eakin, Paul 7449
Earl, J. P. 7791
Earle, C. J. 543, 13140
Earman, J. 9566
Eastham, M. S. P. 3075, 5531, 5532, 5535, 5614, 10750, 13295
Easton, R. J. 3380
Eastwood, Alan 3033
Easwaran, S. 13210
Eaton, Morris L. 1477, 1478, 5272
Eaves, B. Curtis 6957
Eaves, David 4003
Ebanks, Bruce R. 2333
Ebbeler, Donald H. 4005, 6439
Eberhart, C. 11271
Eberlein, W. F. 8352
Ebert, Gary 397
Ebihara, Yukiyoshi 3177
Ebin, D. G. 13980
Écalle, Jean 10497
Eckardt, Klaus-Jürgen 8046
Ecker, Klaus 12474
Eckhardt, Ulrich 9049, 9667, 14411
Eckmann, Beno 1239, 10439
Eckmann, J.-P. 6753
Economou, John E. 9567
Edelberg, M. 120
Edelmann, Hans 331
Èdel´šteĭn, I. S. 13539
Eder, E. 6457
Edgar, G. 5884
Edgar, G. A. 507, 1368, 1369, 3841, 7734
Edmonds, Allan L. 1267, 8684, 13946
Edmonds, J. D., Jr. 6737, 9568-9570
Edmunds, D. E. 5859, 10845
Edwards, A. W. F. *See* 1447, 6338
Edwards, C. A. 9047
Edwards, C. M. 10480
Edwards, Colin R. 12378. *See also* 12379
Edwards, David A. 1216, 3525, 3693, 11326, 12864, 13531
Eells, J. 8720, 13989
Eenigenburg, Paul 13056
Èfendiev, È. I. 5771
Effros, Edward G. 5843
Efimenko, V. ★2370
Efimov, A. B. 2997
Efimov, B. A. 6060
Efimov, G. V. 9440
Efimov, N. V. ★3599, 13738
Efimova, T. A. 13524
Efremovič, V. A. 13093
Efron, B. *See* 1424
Eggarter, T. P. 9504
Eggleton, R. B. 5106
Eggleton, Roger B. 103
Egiazarjan, È. V. 9658
Egipko, V. M. 11547
Egli, Herbert 4166
Egorov, A. D. 13022
Egorov, I. E. 10881
Egorov, Ju. V. 769, 770. *See also* 6, 7161
Egorov, V. A. 3963, 9622
Ehle, Byron L. 3247
Ehlers, Jürgen 4530, 14720
Ehlert, J. 3551a-b
Ehrenfeld, S. 4001
Ehrenfeucht, A. 1729, 6548, 6566, 7244
Ehrenpreis, Leon 7703
Ehrenstrasser, Gottfried ★7094
Ehresmann, C. *See* ★371, 8457
Ehrhart, Eugène 5169, 10174
Ehrich, Matthias 9359
Ehrich, Roger W. 1486
Ehrig, H. 14453
Ehrlich, Gideon 12349
Ehrlich, L. W. 9109
Ehrlich, Paul E. 6022, 8715
Eichinger, B. E. 2677
Ĭdel´man, S. D. 3162, 10821, 10827. *See also* 7161
Eidswick, J. A. 11287
Eiho, Shigeru 4654
Eilbeck, J. C. 3040, 8054
Eilenberg, Samuel *See* 2387, 2388
Eimerl, David 9510
Einarsson, Bo 4156
Einstein, Albert *See* ★9938, ★9953
Eisenberg, Bennett 5694
Eisenbud, David 12735
Eisenfeld, J. 13657
Eisenreich, Günther 5256, ★11205
Eisenstaedt, J. 4507
Eisenstat, S. C. 9129
Ekeland, Ivar 3751
Ekstein, H. 12120
El-Atoum, S. A. M. 3940
Elcrat, Alan R. 635, 5618
Eldesbaev, T. 768
Elenskiĭ, Ju. N. 11117
Èl´-Fahham, M. M. 14054
El-Gendi, S. E. 1673
Elgot, Calvin C. 1698
Elia, Michele 7103, 9831
Eliason, Stanley B. 680
Eliseev, V. K. 9642
El´jaševič, M. M. 5648
El Karoui, Nicole 1372, ★3864, 11530
Elkington, G. B. 3594
El Kolli, Amar 8005, 13284
Ellacott, S. 1563
Ellenberg, Jonas H. 11670
Ellers, Erich W. 3575
Elliott, D. 9045
Elliott, George A. 949, 13579
Elliott, P. D. T. A. 5137
Elliott, Robert J. 8858, 14859
Ellis, G. F. R. ★12154
Ellis, Martin H. 2912
Ellis, Richard S. 1943
Ellison, W. J. 2610, 2611, 5112, ★5138, 7369
Elman, Richard 5114, 5115
Elpat´evskiĭ, A. N. 6622
Elster, K. H. 2899
Elston, F. 4521
Èltayeb, I. A. 11965
Elton, Edwin J. 4605, 6913
Elvey, John S. N. 9398
El'yashevich, M. M. *See* El´jaševič, M. M.
Elżanowski, M. 3752, 4370
Emaldi, Maurizio 12902
Emaus, B. D. 4034
Emch, Gérard G. 9534
van Emde Boas, P. 7224
Emeličev, V. A. 1087, 5107
Emel´janov, V. F. 10973
Emeryk, A. 6100
Emler, Werner 5257
Emre, Erol 7021
Enatsu, H. 9441
Enderlein, G. 14239
Endl, K. 10968
Endler, Otto 5203
Endô, Akira 5181
Enescu, Iolanda 10367
Enescu, Ion 10367
Ènflo, Per 3661, 11029. *See also* 19
Engber, Michael 3031, 7861
Engel, Alejandro B. 7679
Engelbert, H.-J. 11527
Engel´breht, Ju. K. 6629
Engeler, Erwin 9132
Engelfriet, J. 9026a-b
Engels, E. 6738
Engels, Hermann 1533, ★11740
Enghiş, P. 8494
Engibarjan, N. B. 8189, 8358
Englebretsen, George 48
Engler, Antonio José 10225
Englert, D. 4420
Englert, F. 2091
Enke, H. 14196, 14198
Enneking, E. A. 2478
Enqvist, Arne 10826
Entringer, R. C. *See* 5039
Enz, C. P. 1900
Epele, L. 12019
Epelman, M. 8449
Ephraim, Robert 10662, 13125
Epihin, E. N. 2075, 12133
Epp, Susanna Samuels 5308
Èppel´, M. S. 6237
Epstein, D. B. A. 3617, 8664
Epstein, H. 6753, 7849
Epstein, Irving J. 4857
Epstein, Marcelo 11939
Epstein, Saul T. 12025
Erbacher, Joseph 6019
Erbe, L. 5558
Ercolano, Joseph 7360
Erdélyi, A. *See* 3040-3045, 4051-4054, 14304
Erdelyi, I. 3481
Erdős, Paul 113, 128, 159, 226, 257, 265, 516, 2469, ★2470, 2603, 5030, 5106, 5165, 5167, 7278, 7308, 7359, 7402, 8134, 10023, 10118, 10138, 12572, 12609, 13379, 13399. *See also* 5039, 7710
Eremin, G. S. 11831
Erickson, K. Bruce 14108
Erickson, R. V. 1470, 6293
Erimbetov, M. M. 10005
Eringen, A. Cemal ★6623
Erisman, A. M. 14339
Erlat, Halûk 4024, 4025
Ermačenko, O. Ĭ. 12279
Ermolenko, A. F. 4011
Ermol´ev, Ju. M. *See* ★13660
Ermolin, V. S. 7967
Ernest, J. 5884
Ernest, John 2372
Ernst, Frederick J. 9567
Ernst, Lawrence R. 7757, 10573
Ernvall, Reijo 12616
Eršov, E. I. 14568
Eršov, Ju. L. 4947, 7236, ★9994, ★9995. *See also* 6, 4948
Eršov, M. P. 494
Eršov, V. V. 9259
Erugin, N. P. 4899, 4900, 9934
Eržanov, Ž. S. ★14536
Escassut, Alain 3027, 13132
Eschenburg, Jost-Hinrich 6194
Eshel, Ilan 2242
Èskin, G. I. 13280
Èskin, M. I. 3181
Espelid, Terje O. 6545
Espelie, M. Solveig 6082
Esposito, F. P. 2076
Esposito, V. J. 11976a. *See also* 11976b
Essén, M. 7808, 13182
Esser, H. 1582
Estabrook, Frank B. 3191
Esterle, Jean 13587
Esteve, A. 477
Estrada, Richard F. 9768
Etemadi, Nasrollah 11516, 14127
Èterman, I. I. 8097, 8110, 8113
Etori, Kanji 2063
Etringer, Roger C. 109
Eu, Byung Chan 12041
Euler, Leonard ★7180, ★7181
Evans, Alan G. 12311
Evans, David E. 3445, 8298, 8314
Evans, F. J. 4775a-b
Evans, Ian S. *See* 1529
Evans, J. R. 6921
Evans, John P. 12210
Evans, Michael J. 5406
Evans, R. J. 332
Evans, Trevor 2498
Evans, W. D. 636, 5614, 5643, 13192
Evdokimov, S. A. 2593
Evelyn, C. J. A. ★1066
Even, Shimon 2508, 12380
Evens, Leonard 5366
Everitt, W. N. 637, 7936, 7938, 13185, 13186, 13206, 13298
Evlanov, L. G. ★7009
Evseev, E. G. 9247, 9280
Evseev, V. I. 8489
Evstigneev, I. V. 12171, 14166
Ewald, G. 3587
Ewell, John A. 2582
Ewers, Thomas 11545a-b
Ewing, Richard E. 4131
Exner, H. 14258
Exner, Pavel 973, 14630
Exton, Harold 10697, 10698, ★10699, 10746
Eyman, Earl D. 8393, 13685
Eymard, Pierre 11435
Ezeilo, James O. C. 13218, 13219, 13232
Ežov, È. V. ★14469
Ežov, I. I. 3853, 8856, 8928, 11554

F

Faaß, Eberhard ★9108
Faber, M. J. ★6097
Fabian, Václav 3800
Facchinetti, Gisella 10780, 11260
Faddeev, D. K. 5327, 9935, 10430
Faddeev, L. D. 6190, 12062. *See also* 6, 11, ★12419
Fadeeva, E. A. 10880
Fadeeva, N. P. 7636
Fadini, Angelo 5069
Fage, M. K. ★3343, 4114
Faierman, M. 13197
Faĭn, B. L. 918
Faina, Giorgio 11167
Faĭnberg, E. D. 13080
Faĭnberg, M. A. 6319
Faĭnleĭb, A. S. 12681
Faires, B. 7741
Faires, J. D. 13594
Fairweather, G. 1657
Faisant, Alain 7668-7670
Fait, Maria 10587
Faith, Carl 5294, 7443
Faivre, Wilfred 5116
Faĭzibaev, È. F. 7959
Faĭziev, N. G. 9651
Faĭzullaeva, S. 1511
Fakhoury, Hicham 8220, 13529, 13556
Fakhruddin, Syed 12737
Fakirov, D. G. 9442, 9443, 14631
Falb, P. L. 12270
Falconi, Manuel J. 681
Falk, Daniel 2709
Falk, J. E. 9671
Falk, Richard 14516
Falk, Richard S. 9114
Falk, S. 1569
Falkoff, Adin D. *See* 1691
Fallside, F. 4748, 14820
Fam, A. T. 14826
Familiari-Calapso, Maria Teresa 1069, 5959. *See also* 8457
Fam Van At 14334
Fan, L. S. 12219a-b
Fan, L. T. 12219a-b
Fandel, G. 4574
Fannes, M. 1963a-b, 6816
Fano, Guido 12038
al-Fārābī, Abū Naṣr Muḥammad ibn Muḥammad ibn Tarkhān *See* 7167
Faradžev, I. A. 148, 12566
Faradžev, R. G. 14879
Farahat, H. K. 392
Farahat, J. 895
Faraut, J. 853a-b, 5750, 8171, 8348, 10985
Farber, M. Š. 1244
Fargue, Daniel 1879
Faris, William G. 13552
Farkas, Daniel R. 10318
Farkas, Miklós 3549
Farlay, G. 9815
Farmer, C. 4804
Farmer, C. M. 6763
Farrahi, Bijan 3570
Farrell, F. Thomas 6122, 11355
Farrell, Roger H. ★11651
Farshad, M. 4257, 14479
Fartos Martínez, M. 9969
Fáry, István 8649
Fateev, V. A. 14632
Fathi, A. 8680
Fatkin, Yu. M. 6446, 6447
Fattorini, H. O. 5901, 5933, 10782, 13678
Fauchon, Jean 14186
Faudree, R. J. 152, 153, 5030, 12568
Faulkner, G. D. 1176
Fauntleroy, Amassa 5254
Favini, Angelo 3449, 8349, 10783
Favaro, L. 11354
Fay, G. 2254, 6595
Fay, Temple H. 12851
Fayet, P. 4379
Fearn, Dean H. 11539
Fearn, T. 3938
Feder, S. 11317
Federbush, Paul 1975, 2056, 6832
Federer, W. T. 6398, 6405, 6406, 11603
Fédida, Edmond 6158, 8665
Fedorčuk, V. V. 13827
Fedorenko, Ju. D. 8370
Fedorenko, L. G. 11007
Fedorenko, R. P. 4629
Fedorjuk, M. V. 3006, 11907
Fedorov, F. I. 1820, 2883, 6739, 6862
Fedorov, V. P. 12187
Fedorov, V. V. ★4666, ★4667
Fedosov, B. V. 8743
Fedotkin, I. M. 4288
Fedotkin, M. A. 14148
Fedotov, V. P. 1083, 8699
Fedotowsky, A. 10972
Fefferman, Charles 7788, 8132. *See also* 19
Fehr, Elfriede ★9133
Feichtinger, Gustav 9728
Feigelstock, Shalom 381, 2637
Feigenbaum, Mitchell J. 4465
Feigenbaum, Ruth 7672
Feĭgin, L. I. 4624
Feigin, Paul David 14285
Feĭgin, V. I. 1024
Fein, Burton 5199, 12716
Feinberg, Martin 2042
Feinberg, Robert B. 10296
Feĭnberg, V. Z. 2772
Feinerman, Robert 4705
Feintuch, Avraham 8342
Feit, Walter 420
Fejes Tóth, G. 5977
Felderhof, B. U. 4421
Feldman, Arnold D. 10399
Feldman, G. 1920
Feldman, Jacob 2905, 8818, 11474, 13033, *See also* 9494
Feldman, Joel S. 4412
Feldman, Marcus W. 2243, 4712
Feldman, W. A. 1154, 5788
Feldstein, Alan 14407
Felgner, U. 10017, 12525
de Felice, Fernando 4531
Fell, J. M. G. 8315
Fellbaum, Klaus 4809
Fellmann, E. A. 7170
Fellmann, Emil Alfred *See* 7180
Felps, R. R. *See* Phelps, R.
Felscher, Walter 9984, 12476
Felsen, Leopold B. *See* 12426
Fenčenko, V. N. 1885
Fendell, F. E. 6802, 6803
Fenech, Alan Paul 14206
Feneuille, S. 6740
Fenger, Kirsten 7277
Fenichel, Neil 14002
Fennell, R. E. 5559
Fenske, Christian 884
Fenstad, Jens Erik 79
Fenton, P. C. 13050
Fenyő, István 6492 *See also* 8059
Feofanov, G. N. 3883
Feraud, Lucien 11625
Ferguson, Helaman Rolfe Pratt 4082
Ferguson, Le Baron Otis 5675, 8117
de Fermat, Pierre *See* 28
Fernández, Marisa 11255
Fernandez, Pedro J. 3785
Fernández Alvarez-Estrada, Ramón 2055, 12081
Fernique, Xavier 1354, 1355
Feron, Robert 11442
Ferrand, Jacqueline *See* Lelong-Ferrand, Jacqueline
Ferrara, S. 2012, 14714
Ferrari, Aldo 3014, 3745
Ferrari, R. 6762
Ferreira, P. G. 2275, 14821
Ferri, M. 13919
Ferro, Maria 136
Ferry, Steve 1233, 11364
Feŝin, G. M. 1099, 11158, 11159
Fet, A. I. ★14599
Fetcu, Lucia ★4217
Fettis, Henry E. 3041, 4035, 4042, 4044, 4050, 4051, 6442
Feuer, Aric 7032
Feyel, Denis 7820, 13015
Feynman, R. P. ★9444
Ffowcs Williams, J. E. 1856
Fialkovs'kiĭ, O. T. 6693
Fialkow, L. A. 979
Fichera, Gaetano 8016, 14498
Fiddy, M. A. 4334
Fiedler, M. 2695
Fiedorowicz, Z. *See* ★8621
Field, David A. 5447
Fields, K. L. 7598, 12879
Fienberg, S. E. *See* 3939
Fife, Paul C. 7978
Figiel, T. 5805, 8237, 13535
Fil'čakova, V. P. ★13051
Filimonov, A. P. 980
Filimonova, I. I. 13094
Filinov, V. N. 7098
Filipczak, F. M. 5407
Filipescu, Dumitru 1337
Filippov, A. T. 6734
Filippov, N. D. 12772
Filippov, V. B. 4343
Filjukov, S. I. 8081, 8114
Filonik, S. A. 7121
Fil'štinskiĭ, L. A. 6631
Fil'štinskiĭ, V. A. 13430
Finance, J.-P. 11832
Fine, N. J. 2585
de Finetti, B. *See* 3939
Finkel'šteĭn, E. Ja. ★14288
Finkelstein, H. 7618, 12894
Finkelstein, Larry 2795
Finkel'šteĭn, M. S. *See* 22
Finkelstein, Mark 13018
Finkelstein, Raphael 10126
Finkler, P. 9438
Finlayson, H. C. 821, 10547
Finley, J. D., III 14716
Finn, G. D. 6882
Finn, Robert 6677
Finney, D. J. *See* 3891
Fintushel, Ronald 13946
Finzi, Bruno *See* 8457, 12452
Fiorentini, M. 7465
Fiorot, J.-Ch. 7366
Firsov, A. I. 1113
Firsova, N. E. 5906
Firszt, M. 1939
Fischer, A. 4553, 13981
Fischer, D. 4072
Fischer, Joachim *See* ★2157
Fischer, Klaus G. 5219
Fischer, Michael 9153, 11849
Fischer, P. *See* 8059
Fischer, W. 8259
Fishbane, Paul M. 10712
Fishburn, Peter C. 6900, 7001
Fisher, B. 926, 5827, 8274, 11055, 13560
Fisher, J. L. 5289
Fisher, Joe W. 7531
Fisher, Lloyd 4653
Fisher, Michael E. 6709
Fisher, Michael J. 8152
Fisher, Stephen D. 8396
Fisher-Palmquist, J. 7580
Fishman, George S. 6449
Fishman, Philip M. 4794, 6257
Fisk, Caroline 6764
Fiske, Philip H. 4783
Fiszdon, W. *See* ★14543
Fitch, Frederic B. 2422, ★2429
Fitzgerald, D. 1875
Fitz-Gerald, D. G. 5312
Fitzgibbon, W. E. 7986
Fitzpatrick, M. 11261
Fitzpatrick, S. P. 13640
Fix, George J. 1660 *See also* 9111
Fix, George M. 4142
Flachsmeyer, Jürgen 10923
Flajolet, P. 4183, 12501
Flanders, Harley 2362
Flanigan, Francis J. ★10575
Flannagan, T. B. 4980
Flascka, Hermann 18
Flato, M. 1906, 8735, 13994, 14717
Flavell, R. 6941
Fleischer, Isidore 200
Fleischmann, Klaus 1417
Fleischner, Herbert 131, 2535
Fleishman, B. A. 7928, 8377
Fleissner, Richard J. 12999
Fleming, Richard J. 3372
Fleming, Wendell ★10514
Fletcher, D. C. 9266
Fletcher, Peter 11278
Fletcher, R. 5695
Fliess, Michel 7523
Fligner, Michael A. 3953
Fljaĭšer, A. 3630, 3631, 6033, 6034
Fljaĭšer, V. 362
Flondor, Paul 13118
Floratos, E. G. 6714
Florea, Gh. 3683
Flores, Jorge *See* 4885
Flores, Ruben 6112
Florian, A. 8454
Florian, H. 8454
Florinskiĭ, A. B. ★14469
Flösser, Hans O. 5789
Florkiewicz, B. 13006
Fluch, W. 12683
Flügge, Wilhelm ★11931
Fodčuk, V. I. 5581
Fogelin, Robert J. 4908, *See also* 7193
Foht, A. I. 1399
Foht, O. S. 711, 712, 9100, 9709
Foiaş, Ciprian 1010, 5852, 5863, 5876, 8321, 8330, 13605
Folks, J. Leroy 3914
Föllmer, Hans 9619, 14122
Folomeškin, V. N. 9571, 9572
Fomenko, A. T. 3560, 13695
Fomenko, V. T. 1139, 8531
Fomičov, O. O. 3979
Fomin, S. V. 8776. *See also* 29, ★3061, ★3062
Fomin, V. N. 10767
Fomychov, O. O. *See* Fomičov, O. O.
Fong, C. O. 4606
Fong, Humphrey 5868, 10558
Fonseca Araujo, U. 2293
Fontana, Marco 2667
Foote, Richard 10392a-b
Ford, Charles 384
Ford, David 12874
Ford, J. A. 6482, 6483
Ford, Nicholas S. 2707
Ford, William H. 11807
Forder, H. G. *See* ★7160, 9950, 9951
Forgó, Ferenc ★4639
Forlani, Agostino ★5662
Formanek, Edward 2725, 5324, 7626
Formanov, S. K. 14054
Formisano, Maria Rosaria 363
Fornaess, John Erik 5498, 10669
Fornasini, Ettore 2342
Fornberg, Bengt 9101
Forrest, J. J. H. 6955
Forrest, Peter 5438
Forst, G. 7821, 8781
Forst, Wilhelm 10951
Förste, Joachim 9305
Forster, Otto 7852 *See also* 9915
Forster, P. 1625, 6520
Förster, W. 8035
Forte, B. 12093
Fortet, R. 3796
Fortin, M. 9343, 9344a-b
Fortin, Michel 5945
Fortuna, Zenon 6501
Fortunato, D. 6736, 12033
Fortunatov, V. A. 12603
Fossard, A. J. 9766
Fosseen, J. B. 9130
Fossum, Robert M. 7444
Foster, Caxton C. 101
Foster, J. 7000
Foster, M. J. 11374
Foulis, D. J. 4491, 4492
Foulkes, H. O. 4996
Fountain, John 10448
Fourcade, G. M. 8912
Fourier, Joseph *See* ★7172
Fournier, Gilles 8614, 13989
Fox, Colin D. 7350
Fox, David W. 4291, 13615
Fox, Geoffrey 6075
Fox, Herbert L. 4079
Fox, Martin 8939
Fox, Thomas F. 2179
Fradellos, G. 4775a

Fradkin, E. S. 4375, 9421, 14593
Fradkov, A. L. 4765
Fraenkel, A. S. 2220
Fraenkel, L. E. 10901
Fraile Ovejero, Vicente 5754
Francaviglia, Mauro 6879
Franceschini, Valter 9466
Franchetti, C. 11044
Franci, Raffaella 209
Franciosi, Filippo *See* ★9174
Francis, B. 2262, 7063
Franco, A. 12250
Frangulov, S. A. 2092
Frank, G. 2494
Frank, G. M. *See* ★6981
Frank, Günter 10601
Frank, Hubert 5984, 5997, 5998
Frank, J. L. 13041, 13042
Frank, Leonid 6523, 10840
Frank, M. D. 9931
Frank, W. M. 6722
Franke, John E. 11402
Frankena, J. F. 11145
Frankl, P. 2473
Franklin, S. P. 3656, 13844. *See also* ★9918
Frankowski, K. ★11721
Franks, John M. 3715, 11399
Frasca, Michele 3145
Fraser, D. A. S. 1424, *See also* 3944
Fraser, Grant A. 7342
Frederix, G. H. M. 7106
Fredman, Michael L. 4176
Fredricks, David 4413
Fredricksen, H. M. 285. *See also* 286
Fredricksen, Harold 11837
Fredricsson, Staffan A. 2318
Free, C. A. 12248
Freedman, Daniel Z. 2011
Freedman, H. I. 3063, 5271, 7962
Freedman, Michael H. 1264
Freeman, J. W. 1088
Freeman, James B. 2423
Freeman, T. L. 1578
Freese, Ralph 12590
Frehland, Eckart 14707
Freifelder, Leonard 1523
Freilich, Gerald 7757
Freitag, Eberhard 617
Freivalds, R. 12499
Fremlin, D. H. 13526
Frenkel', Ja. I. *See* ★2402
Frenkel', V. Ja. *See* ★2402, 2403
Frenklin, B. R. 4965
Freud, Géza 794, 3275, 5700, 7913, 8134, 13380, 13381
Freyd, Peter 376, 7571
Fridlender, V. R. 13289
Fridman, A. Kh. 5648
Fridman, G. Š. 137
Fridrich, Marek 9859
Fried, David L. 1891
Fried, E. 184, 10372
Fried, H. M. 9529
Fried, Michael 5241
Friedberg, Stephen H. 857
Friederich, A. 9426
Friedland, Bernard 12312
Friedland, Lewis *See* ★9270
Friedland, S. 568, 2698, 2939, 11129
Friedlander, John B. 5139, 5177
Friedlein, Heinz-Reiner 5954
Friedler, Louis 6094, 13834
Friedman, Arthur D. 9860, ★12381
Friedman, Avner 3160, 4780, ★9696, 10849, 13314
Friedman, Charles N. 12042
Friedman, George J. 7013
Friedman, Harvey 4966
Friedman, Kenneth A. 4380
Friedman, M. D. *See* 4042
Friedman, Menahem 9810
Friedrich, H. 4554
Friedrich, Klaus 13601
Friedrichs, K. O. ★9284
Friel, James O. 9021
Frijters, D. 4707
Frisch, H. L. 9711
Fritsch, Rudolf 1075, 3567, 7176
Fritzsche, K. ★3004, 7858
Fritzsche, Volkmar 10228
Frjazinov, I. V. 4133, 4134
Froda-Schechter, Micheline 4974
Froeschl, Paul A., III 12738
Fröhlich, A. 2621
Fröhlich, Jürg 1980, 6753, 9413, 9530
Frolík, Z. 11285a-b
Frolov, N. N. 13553
Frolov, S. ★2370
Fröman, Nanny 3116
Fromm, Jens 8115
Fronczek, Ronald C. 11984
Fronsdal, Christian 11229
Frosini, Graziano 7122, 9887
Frost, M. G. 14277, *See also* 14278
Frumkin, M. A. 14340
Fryntov, A. E. 8794, 8795
Fu, K. S. *See* ★6535
Fu, K. Y. 2093
Fuchs, Eduard 5065
Fuchs, L. 10441
Fuchs, Martin 1208
Fuchssteiner, Benno 891, 892
Fučík, Josef 1737
Fučík, Svatopluk 5925
Fufaev, N. A. *See* ★9963
Fugate, J. B. 11271
Fuglede, Bent 8557, 10637, *See also* 10634
Fuhrmann, P. A. 1574
Fuhrmann, Paul A. 2263
Fujihashi, Chugo 12342
Fujii, Akio 7410
Fujii, Masatomo 14385
Fujii, Masatoshi 11088
Fujii, Michikazu 8611
Fujikoshi, Yasunori 1480
Fujimoto, T. 4592, 9620
Fujisaka, Hirokazu 6825
Fujisaki, M. *See* 18
Fujishige, Satoru 2301, 7051
Fujita, Masahisa 4659
Fujito, Isami 482, 3258
Fujiwara, Chikato 4812
Fukada, Minoru 9835
Fukao, Takeshi 7070
Fuks, D. B. 1246, 3716, 6159
Fukuda, Takuo 10650
Fukui, Ichio 2013
Fukui, Takehiro 8713
Fukushima, Masao 6951
Fukuta, Jiro 2170
Fukutomi, Kazuo 14244
Fukuyama, Yutaka 9519
Fulkerson, D. R. *See* 9947
Fullenbach, Adolf ★4167
Fuller, A. T. 9794
Fuller, Kent R. ★5281, 5293
Fulton, William 317
Fults, Douglas A. 10127
Funahashi, Y. 14851
Funakosi, Shunsuke 958, 3437, 13843
Furaeva, I. I. 6525
Furness, P. M. D. 8665
Furness, Peter 6158
Fursa, T. G. 9936
Fursikov, A. V. 3166, 13287
Fursov, V. S. 12444
Furstenberg, Harry 10484
Furtado-Coelho, J. 210, 2835
Furuhama, Yoji 6889
Furusho, Yasuhiro 10831
Furuta, K. 7022
Furuta, Yoshiomi 7430
Furuya, Mamoru 10231
Fushimi, Tamio 4630
Fussell, Jerry B. *See* ★11709
Futák, Ján 682
Fymat, A. L. 4559

G

Gabbay, Dov M. 7202
Gabdulhaev, B. G. 11767
Gabedava, T. V. 6530
Gabisonija, O. D. 13459
Gabov, S. A. 11955
Gabow, Harold N. 10073, 12575, 14427
Gabrašvili, A. I. 6836
Gabriel, Richard 9064, 14328
Gabrièlov, A. M. 1245, 13126
Gabrovski, I. Z. 11554
Gackstatter, Fritz 8461, 11182
Gács, Péter 12364
Gadžiev, A. D. 14699
Gadžiev, S. A. 11956
Gadžiev, V. G. 13023
Gadžimuradov, M. A. 11254
Gaeta, Federico 7478
Gaffney, P. W. 4062
Gaffney, Terence 8703
Gaffuri, Giovanni 14701
Gafurov, M. U. 11456
Gage, Stuart H. 7006
Gagliardi, C. 13919
Gaglione, Anthony M. 404
Gagola, Stephen M., Jr. 12875
Gähler, Siegfried 13544
Gahov, F. D. *See* 33
Gaĭduk, S. I. 4249
Gaifman, Haim 7247
Gaĭkov, N. E. 11777
Gail, Mitchell H. 3954
Gaines, F. J. 2768
Gajęcki, Ryszard 11699
Gajewski, Herbert 11124, 11921
Gal', M. M. 3105
Galajda, P. 11825
Galan, D. M. 8098
Galbiati, Margherita 5493, 7834, 10651
Galbraith, R. F. 8873
Galbură, Gh. ★1, 309
Gal'čuk, L. I. 8843
Galdi, Giovanni P. 6672, 8055
Gale, David 9621a. *See also* 9621b
Galewski, David E. 8650
Gal-Ezer, Eldad 4381, 14633
Galil, Zvi 2440, 9158
Galilei, Galileo *See* 12440
Galimov, I. S. 13043
Galimov, K. Z. 9306, *See also* ★1769
de Galindo, M. Santana 7885
de Galindo, S. E. González 8178
Galiulin, R. V. 1068, 12926
Galkin, L. M. ★12094
Gallavotti, Giovanni 10559, 14684
Galletto, Dionigi 12452
Gallian, Joseph A. 2783, 5337
Gallone, Franco 2870, 9425
Gallucci, Michael A. 13400
Gallus, G. 4640
Galočkin, A. I. 2600, 12668
Gal'perin, E. A. 9756
Gal'perin, G. A. 4860
Gal'perin, V. E. 1129
Gal'pern, S. A. 3142
Galuzzi, Massimo 5317
Galycin, A. S. 1897
Gambardella, P. 4368
Gamelin, T. W. 2978, 3413, 11065
Gamkrelidze, R. V. 11144, 13672, *See also* 6, ★9, ★11, ★13, ★964, ★4882, ★6217
Gancarzewicz, Jacek 6017, 11230
Gandel'sman, E. M. *See* ★2402
Gandel'sman, I. L. *See* ★2403
Gandhi, J. M. 7370
Gandulfo, R. O. 8127
Ganelius, Tord 795
Ganev, Hristo G. 4276
Gangolli, Ramesh 8172
Gani, J. 1418, 8878
Ganley, Michael J. 5009, 13716
Gannon, D. 13926
Ganšin, G. S. 14365
Gänssler, P. 6415
Gaponenko, A. L. 9078
Gaponenko, Ju. L. 1590, 3165, 9078
Gapoškin, V. F. 5725, 11466
Garabedian, P. R. 13052
Garaščenko, F. G. 652, 1751
Garaščuk, M. S. 2805
Garashchenko, F. G. *See* Garaščenko, F. G.
Garbaczewski, P. 6754
Garbai, L. *See* 2138
Garbaj, Zbigniew 10715
Garbayo Martinez Emilio 6635
Garber, W. D. 9427
Garcia, C. B. 6113
García Camarero, E. *See* ★4909
Garczyński, W. 12043
Gard, Patricia 2775, 4374
Gard, T. C. 14099
Gardiner, Anthony 143, 144, 7316
Gardner, B. J. 7574
Gardner, Clifford 13178
Gardner, Robert B. 10235
Garey, M. R. 120, 6549, 6929, 6930, 9659, 14439
Garfinkle, J. 14824
Garfinkel, R. S. 2163
Garg, D. P. *See* 7037
Garg, M. R. 4287
Garg, Om Prakash 7893, 10702, 13166-13168, 13481
Gariepy, Ronald 7996
Garifullin, F. A. 9306
Garistov, V. P. 9445
Garland, Howard 471, 2744, 5389
Garland, Stephen J. 4982
Garling, D. J. H. 896, 11427
Garman, B. L. 123
Garnett, J. B. 2978, 7793
Garnett, John 3413
Garrett, John W. 13435
Garrido, L. 1900
Garsia, Adriano M. 1364, 2894
Gasanov, G. M. 809
Gasanov, K. K. 5651
Gasanov, M. G. 13327
Gasanov, N. M. 1610
Gasca González, Mariano 10871, 10872
Gasper, George 619
Gasqui, Jacques 8687
Gasser, Theodor ★9019
Gasymov, M. G. 4900
Gaszyński, J. 1804
Gates, D. J. 14696
Gatha, K. M. 4532
Gatignol, Renée ★4454
Gatteschi, L. 6463
Gaudier, Henri 12792
Gaudin, M. 9446
Gauduchon, Paul 10688, 13148
Gauld, David B. 8681
Gaultier, Maurice 8323, 13243
Gaur, K. N. 8912
Gaur, Madhukar 4304
Gautam, L. P. 13440
Gauthier, Luc 8457
Gauthier, P. M. 2971, 7864, 10610
Gautschi, W. 11738, 11795, 14344
Gaveau, B. ★7818, 8756, 13292, 13988
Gever, D. P. 6313
Gever, Donald P. 8841, 11535
Gavin, Lloyd A. 786
Gavin, Tom 9822
Gavish, Bezalel 12223
Gavriljuk, O. M. 166, 167
Gavriljuk, V. T. 9946
Gavrilov, N. I. 1296
Gavrilov, V. I. 5469, 13105
Gavrilov, S. K. 2980
Gavrilov, V. I. 2972
Gavrin, V. P. 3335
Gawędzki, K. 14016

Gawrylczyk, Irena 11179
Gay, David A. 2886
Gay, David M. ★14773, 14774
Gazis, D. C. 4612
Geba, Kazimierz 6179
Gębarowski, Andrzej 1110
Gebhardt, D. 1534
Gechter, Jerry 5189
Gečiauskas, E. 6051
Gécseg, F. 9892
Geddes, K. O. 10611
van Geel, Jan 12815
Geering, Hans P. 9780
Geertsema, J. C. 3997, 11650, 11684, 14264-14266
Geffen, Nima 4292
Geffroy, Jean 8951
Gegelia, T. G. 1805, ★9233
Gehrig, Wilhelm ★9645
Gel'hman, L. M. 4564
Geller, V. A. 5790
Gel'm, Ju. A. 14319
Gel'sberg, S. P. 2903
Geisser, Seymour 6363
Geissinger, Ladnor 2683
Gekeler, Eckart 1649, 11801
Gelašvili, M. S. 4567
Gelbart, Stephen 283, ★7382, ★12654, 13474
Gelbaum, Bernard R. 469, 8767
Gel'činskiĭ, B. Ja. 4326
Gelders, L. 2173, 2174
Gelders, L. F. *See* 2138
Geldiašvili, N. I. 6412
Geldmacher, R. C. 12576
Gelenbe, E. 14416, *See also* ★4159
Gel'fand, I. M. 29, 1245, 2884, 6159
Gel'fand, M. A. 12211
Gel'fand, S. I. 2884
Gellar, Ralph 5889, 13619
Geller, Dennis P. 10063
Geller, Matthew M. 11857, 14454
Geller, Susan C. 12923
Gelovani, V. A. 9622
Geman, Donald 6251, 8824
Gemst, V. K. *See* ★6534
Gence, Jean-Noël 11996
Genčev, Todor 2963
Genêt, Jean 13262
Gentina, J. C. 2260, 12300
Gentleman, W. M. 1575
Gentry, R. D. 10733, 13198
Gentzsch, Wolfgang 1649
Genz, A. C. 9500
Geoffrion, Arthur M. 14776
Geoghegan, Ross 1216, 1228, 3693, 6073, 11326
Georgacarakos, G. N. 62
Georganas, Nicolaos D. 11555, 14846
George, Alan 6472
George, C. 14676
de George, David L. 8651
George, Isac 8495
Georgiev, G. I. 9531
Georgiev, Georgi 8457
Georgii, Hans-Otto 14697
Ger, Roman *See* 8448
Gerace, G. B. 9887
Geramita, Anthony V. ★5206, 12547-12552
Geramita, Joan Murphy 12547, 12548
Gérard, Alain 14499
Gérard, Besson ★10254
Gerber, Leon 13707
Gerber, P. D. 1639
Gercik, V. M. 6826
Gerdžikov, V. S. 9447
Gergely, J. 4086
Gerhardt, Claus 3562, 5935
Gerlach, B. 11705
Gerlich, G. 9511
Gerling, W. 9426
Germain, P. 11908
Germano, Giorgio 2445
Germeĭer, Ju. B. 12229
Geronimus, Ja. L. 13443
Gersch, W. 2302
Gershenson, M. 3316
Gerškman, Ju. A. 3127
Gerstenkorn, Tadeusz ★3775
Gerth, Frank, III 271, 10190-10192
Gervais, J.-L. 14610
Gerzon, M. A. 2285
Gestrin, G. M. 4422
Gesztelyi, E. 8059
Getmanceva, T. I. 3340
Getoor, R. K. 3866, 8894
Geveci, Tunç 6642
Gevers, M. 7069
Gevirtz, Julian 13973
Gevorkjan, Ju. L. 5816
Geymonat, G. 11812
Ghatage, P. 8322
Ghatwary, G. K. 8079
Ghausi, Mohammed S. *See* ★12402
Gheorghe, Adrian V. 14813
Gheorghe, Florin-Christian 6416, 11681
Gheorghiev, Gheorghe *See* Georgiev, Georgi
Gheorghiță, Stefan I. 11945
Gheorghiu, Gh. Th. 8500
Gheorghiu, Oct. Em. 10251
Ghezzi, Carlo 9169
Ghil, Michael 4568
Ghilezan, Coriolan *See* Gilezan, Koriolan
Ghione, Franco 2646
Ghiță, Alexandru 1517
Ghizzetti, Aldo 8125
Ghobrial, I. R. 12006
Ghori, Q. K. 6607
Ghosh, B. K. 3936
Ghosh, Deba Brata 10119
Ghosh, J. D. 10987
Ghosh, M. 11426, 11606
Ghosh, Sakti P. 6596
Ghosh, T. K. 7036
Ghoshal, S. 6667
Ghozati, Seyed-Ali 12329
Giacaglia, G. E. O. 14478
Giambò, Sebastiano 6614
Gianini, Jacqueline 1503
Giannico, N. 10652
Giannoni, M. J. 2007
Giannuzzi, Maria Antonietta 12438
Giaquinta, Mariano 8414
Gibberd, R. W. 4482, 14676
Gibbon, J. D. 8054
Gibson, C. G. 3020
Gibson, J. A. 12212
Gibson, P. M. 334, 7504
Gičev, Todor 12298
Gideon, Rudy A. 14193
Giebutowski, Theodore A. 7450
Giering, Oswald 5984
Giersich, Werner 12404
Gierth, Gertraude 14790
Giertz, Magnus 2417, 5880, 13186, 13298
Giffen, Charles H. 12643
Gihman, I. I. 8844, 8859
Giĭemin, Viktor *See* Guillemin, Victor
Gil', M. I. 3462
Gilardi, Gianni 1863
Gilat, David 6274
Gilb, N. S. 11669
Gilbert, Edgar N. 12382
Gilbert, Elmer G. 4756
Gilbert, John E. 565, 7939
Gilbert, R. P. 5629, 10620
Gildenhuys, D. 411, 7640
Gil'derman, Ju. I. 5417, 10747
Giles, J. R. 11030
Giles, William B. 121
Gilezan, Koriolan 287
Gili, Adolfo 3902
Gilis, A. A. *See* Gylys, A.
Gilkey, Peter B. 11238
Gill, John T., III 1711
Gillert, H. 3858
Gillespie, T. A. 3482, 5898
Gilman, Alfred S. 7083
Gilmer, Robert 302, 2854
Giloi, W. ★9861
Gilpin, Michael 2479, 3572
Gimadi, È. H. 9660
Gindev, E. 12188
Gindikin, S. G. *See* 7161
Giné M., Evarist 6232
Gingold, H. 7979, 10918, 10919, 13235
Ginibre, J. 9545. *See also* 14
Ginn, Stephen M. 356
Ginsberg, M. 1607
Ginzburg, V. L. 9573
Giorgadze, A. H. 7144
Giovannelli, Nicolò 7715
Girard, André 6811
Girard, E. 9854
Girard, J. Y. 4932
Girardi, Mario 5200
Giraud, B. 12044
Giri, R. D. 10410
Girko, V. L. 1350, 6233
Girolami, Florida 12739
Giroux, A. 13380
Girševič, J. 5701, 8111, 8112
Gisin, V. B. 7583
Gitler, S. 11317
Give'on, Y. 4192
Gjačjauskas, È. *See* Gečiauskas, E.
Gladkiĭ, A. V. ★14455a-b
Glaeser, G. 8698, 8710
Glaser, V. 7849, 12032
Glashoff, Klaus 11132
Glasner, Moses 573
Glass, A. M. W. ★10097
Glasser, M. L. 10915, 13156. *See also* 4050
Glassey, C. R. 12224
Glassey, C. Roger 4660
Glassey, R. T. 1947, 1957
Glässner, Ekkehart 11239, ★12800
Glauberman, G. 395, 5341
Glaz, A. B. ★9189
Glazebrook, K. D. 6931
Gleason, Andrew M. 12354
Glebov, N. I. 9660
Gleit, Alan 5905
Gleser, Leon Jay 14237, 14267
Glick, Ned 6380
Glick, Noel 10734
Glickman, Theodore S. 11556
Glicksberg, I. 3306
Glikman, L. G. 4224
Glimm, James 1981, 1982, 6755
Gliviak, Ferdinand 164, 2536, 12559, 12577
Globevnik, J. 563, 905, 5832, 13095. *See also* 7149
Glonti, L. I. 5926
Glover, K. 12263
Głowacka, Elżbieta *See* ★12430
Glowinski, R. 1661, 6521. *See also* ★14476
Gluck, Herman 3624, 3625
Gluhčev, G. 7802
Gluhov, M. M. 2822
Glušenkov, V. D. 11802
Gluskin, L. M. 12932
Gluško, V. P. 10528
Gluskov, V. M. *See* 40, ★9919, ★9920
Gnedenko, D. B. 11706
Gniazdowski, Andrzej 2447, 4922, 11693a
Gnot, S. 14254
Gobedžišvili, M. S. 6863
Göbel, F. 2236
Goble, L. F. 63
Gochet, Willy 4668
Godambe, V. P. *See* 6344, 11595, 11600
Godbillon, Claude 6156, 8666
Goddard, P. 4423
Godeaux, Lucien 10255, 10266, 10275, 12788. *See also* 8457
Godement, Roger *See* 20
Godfrey, Jean 4993
Godunova, E. K. 7722, 12537, 13007
Goel, R. M. 2940
Goel, V. P. 3310, 13480
Goffman, Casper 13000
Gogohija, V. Š. 6734
Gogonea, Sorin 13090
Goguen, J. A. 4168, 10373
Goh, B. S. 6992
Gohberg, I. C. 13606
Gohman, A. V. 14490
Gokhale, D. V. 3928
Gokhroo, D. C. 10992
Gołąb, Stanislaw *See* ★8059
Golberg, Michael A. 9093
Gol'cman, F. M. ★4447
Gold, Robert 5187, 10196, 12713
Gol'dberg, A. A. 2968, 5448, 10617
Goldberg, Eugene L. 7411
Goldberg, Karl 2476
Goldberg, Moshe 10295
Goldberg, S. I. 13785
Gol'dberg, V. N. 746
Gol'dberg, V. V. 5985, 5986, 6007, 11226
Golden, B. L. 2217
Gol'denberg, M. M. 12904
Goldfarb, Donald 11778
Goldfarb, L. J. B. 4393
Goldfeather, Jay E. 11318
Goldfeld, D. M. 2622
Goldie, Alfred 2708
Goldman, A. J. 2175
Goldman, Jerry I. 7560
Goldman, Joel 2319
Goldman, Martin V. 14658
Goldman, Steven M. 4587
Göldner, Klaus 12282, 12283
Gol'dšteĭd, I. Ja. 7940
Goldstein, Jerome A. 3372, 3450, 3496a-b
Goldstein, Larry Joel 5122
Goldstein, M. 1426, 1491, 6383
Gol'dšteĭn, M. Š. 942, 5435
Goldstein, Richard Z. 3724
Gol'dšteĭn, V. M. 2961
Golecki, Joseph J. 4250, 11909
Golinskiĭ, B. L. 5723, 8827, 10969
von Golitschek, Manfred 5675, 13404
Gollek, Hubert 3728
Gollwitzer, H. E. 13504
Gologan, Radu-Nicolae 7747
Golomb, Solomon W. 227
Golovin, O. N. *See* 30
Golovin, V. D. 13119
Golovina, L. I. ★2675
Golovkin, K. K. 4157, ★8262
Golovko, I. A. 10465
Golser, Georg 7390
Golub, G. H. 1570, 4072
Golubcova, T. V. 3582
Golubev, V. A. 2573, 2583
Golubeva, A. A. 14405
Golubitsky, Martin 3736, 9729
Golubov, B. I. 5737, 5738
Golunkov, Ju. V. 7141
Goma, I. A. 10799
de Gómez López, A. M. M. 10988, 10989
Gómez M., Guillermo L. *See* 9635
Gómez Pardo, J. L. 7584
Gómez Trapote, Alberto 4225
Gommers, Toon 3293
Gomozov, E. P. 13974
Gončar, A. A. 5467
Gončarov, V. G. 1097, 1098
Gondard, Danielle 288
Gondran, M. 7366
Gonnet, Gaston H. 11754
Gonseth, Ferdinand *See* 37
Gonshor, Harry 4949
Gonzales, Teofilo 4189
Gonzalez, M. O. 13735
Gonzalez, Roberto 8400

González Carlomán, Antonio 7346
González Domínguez, Alberto 8275
Good, I. J. 10914, 11611. *See also* 6344, 11595, 14172
Goodearl, K. R. 357
Goodhue, William L. 3185
Goodman, Leo A. 3916, 3917
Goodman, M. A. 4266
Goodman, Roe 5390
Goodman, S. E. 10072
Goodman, Sue E. 11350
Goodman, Victor 11532
Goodrich, Robert Kent 3474
Goodstein, R. L. ★4906
Goodwin, Graham C. 9758, 13670
Goor, Robert M. 13669
Gopalan, R. 8118
Gopalsamy, K. 9811
Gopinath, B. 1892, 2320
Goppa, V. D. 7107
Gorbacevič, V. V. 1271
Gorbačuk, M. L. 3402, 10735
Gorbačuk, V. I. 3402, 10735
Gorbaĭčuk, V. Ĭ. 5718, 7805
Gorban′, A. N. 5494
Gorbatenko, N. G. ★14469
Gorbatenko, V. N. 4097
Gorbatov, A. M. ★1937
Gorbatov, V. A. 4861
Gorbunov, A. D. 1034, 9088
Gorbunov, V. A. 5085
Gorčakov, Ju. M. 7625
Gorčakov, V. V. 12051
Gorcev, A. M. 14149
Gordeev, R. G. *See* 22
Gordeziani, D. G. 1789, 9247
Gordh, G. R., Jr. 11296
Gordienko, V. N. 561
Gordinskiĭ, L. D. 1833
Gordon, C. McA. 1240
Gordon, Carl E. 4945
Gordón, F. Bombal *See* Bombal Gordón, Fernando
Gordon, Gerald Leonard 311
Gordon, Henry G. 4862
Gordon, Noam 5927
Gordon, William B. 12742
Gordon, William J. 4141
Gordon, Y. 896
Gorelik, E. M. 13093
Gorenstein, Daniel 12885
Gorin, E. A. 933, 8294
Gorini, Vittorio 6817
Gorjačev, A. P. 5686
Gorjaga, A. V. 2813
Gorlenko, S. V. 1160
Górniak, J. 13598
Górniewicz, Lech 8614
Goroško, O. O. 4109
Gorovaja, E. N. 1871, 4143
Gorskiĭ, Ju. M. 14880
Gorškov, A. G. 1840
Görtler, Henry ★1744
Goruškina, N. V. 8412
Gorziĭ, T. A. 11248
Gostanian, Richard 9975
Gostev, P. M. 14564
Gostev, V. B. 6732
Goto, Morikuni 12760
Gottlieb, David 4127
Gottschalk, Manfred 5150
Gotusso, Laura 14386, 14387
Götz, Walter 13360a-b
Goudas, C. L. *See* 7157
Goudreau, G. L. 14537
Goulaouic, C. 707, 8042, 13356
Gould, F. J. 12210
Gould, H. W. 2577
Goullet de Rugy, Alain 8249
Gourdin, Daniel 8040
Goursaud, J. M. 349
Govil, N. K. 2930
Govindarajulu, Z. 3929, 6234, 8977
Gowrisankaran, Kohur 8281
Goyal, A. N. 10704, 13157
Goyal, S. P. 3057
Gräbe, P. 10441
Grabert, H. 2064
Grabiner, Sandy ★3410
Grabowski, J. 14767
Gračev, V. A. 11026
Grad, Harold 9285
Grad, Janez *See* 7148, 7149
Gradšteĭn, I. S. *See* 4043-4049
Grady, Michael Dale 11528
Grafarend, E. 2135, 2136
Graffi, Dario *See* ★9907
Graham, Colin C. 8150
Graham, Daniel A. 9623
Graham, G. A. C. 14500
Graham, J. W. 9145, 14471
Graham, R. L. 120, 247, 5268, 9659, 10118
Graham, Susan L. 11857
Gramain, André 13945
Gramellini, M. Letizia 13892
Granas, Andrzej 6179
Grande, Zbigniew 7720, 12998
Grandell, Jan 4013
Grandjean, Étienne 7225
Granger, M. *See* 2232
Grannell, M. J. 5733
Granot, D. 14777, 14795
Granot, F. 14777
Granovskiĭ, B. L. 1552
Grant, Douglas D. 2586, 5043a-b
Grant, Douglass L. 458,
Grant, Edward *See* ★12437
Grant, J. A. 5695
Grasselli, Osvaldo M. 7064
Grassl, R. M. 2490
Grattan-Guinness, I. ★7172
Grauert, H. ★ 3004
Graupe, Daniel 14827
Gray, Alfred 6010
Gray, F. Gail 7133
Gray, John W. 378
Gray, L. J. 13607
Grea, J. 1906
Grečannyĭ, O. A. 14665
Grečko, V. I. 3065
Greco, Antonio 4251, 4323
Greco, Silvio 10284
Green, A. E. 9364
Green, Christopher D. 5023
Green, D. H. 2343
Green, Edward L. 5300, 7550
Green, H. S. 1921
Green, J. A. 348
Green, Judy 2459
Green, P. J. 8877
Green, Sylvan B. 3954
Greenaway, A. H. 4334
Greenberg, B. V. 5223
Greenberg, Harold 14366
Greenberg, Harvey J. 9684
Greenberg, William 6814
Greenblatt, Z. 2186
Greene, R. E. 10672
Greenfield, Stephen J. 7846
Greenleaf, Frederick P. 5741, 12967, 12979, 12993
Greenlee, W. M. 8326, 8327
Greenwood, P. 3845
Greenwood, Priscilla 14085
Gregor, Jiří 2935
Gregory, J. 11008
Gregory, J. A. 9038
Gregory, S. *See* 1529
Greguš, M. 3084
Greibach, S. A. 11856
Greig, I. S. 6514, 9345
Greig, W. E. 12621, 14477
Greitzer, Frank L. 12256
Grekova, I. 1745
Gretsky, N. E. 3475, ★3476
Greville, T. N. E. 6452, 13388
Grewe, N. 9503
Grib, A. A. 4897
Gries, David 1701
Griess, Robert L., Jr. 12865
Griffeath, David 6284
Griffin, J. J. 1970
Griffin, Malcolm P. 12729
Griffith, J. S. 6464
Griffith, Phillip 303
Griffiths, Alan D. 7279
Griffiths, H. B. ★4878, 7586, 7587
Griffiths, J. B. 4508
Griffiths, Phillip A. 2652, 7459, 7868. *See also* 17, 19
Griffiths, W. E. 6384
Griffits, Filipp A. *See* Griffiths, Phillip A.
Grifone, Joseph 8529
Grigelionis, B. 8832, 8833, 8836, 8845, 8854, 8886, 11524. *See also* ★3780
Grigis, Alain ★10828
Grigoljuk, È. I. *See* ★12466, ★12467
Grigore, Gh. 8221, 8346
Grigorescu, S. I. 1342, 1391, 11509
Grigorevskiĭ, N. V. 14032
Grigorieff, Rolf Dieter 3526, 11082a-c
Grigorjan, A. G. 10337
Grigor′jan, A. T. *See* ★2401
Grigorjan, L. D. 5467
Grigorjan, S. A. 13572
Grigorov, N. L. *See* ★14584
Grillenberger, Christian 10560
Grillet, Pierre Antoine 437, 10450
Grilliot, Thomas J. 80
Grimaldi, Antonio 1823
Grimeisen, Gerhard 10543, 10544
Grimmer, R. 10802, 13211
Grinblat, L. Š. 11292, 11428
Grincevičius, A. 1333
Grines, V. Z. 3757, 6203
Gringauz, M. G. 6631
Griniuvienė, L. 14049
Grinšpon, S. Ja. 426
Grioli, Giuseppe 6643, 6644
Grisaru, M. T. 14715
Grišćuk, L. P. 9574
Grišin, A. M. 1644
Griss, Martin L. 4073
Grisvard, Pierre 13647
Grmela, Miroslav 14677
Grobbelaar, J. W. 11718
Gröbner, Wolfgang 5258
Grodal, Birgit 12355
Grodzki, Z. 2358, 4934
Groemer, H. 1091
de Groen, P. P. N. 10817
Groeneboom, P. 6371
Groening, William A. 552
Groetsch, C. W. 878
Gröger, Konrad 10784, 11124
Gröll, Reinhardt 9610
Gromoll, Detlef 11234
Gromov, M. L. 1323, 8709. *See also* 6
Gromov, V. G. 9260
Gromova, P. A. *See* 12413
Grøn, Ø. 14702
de Groot, Sybren Ruurds 11972
Grosjean, C. C. 3048, 3049
Gross, Jonathan L. 7301
Gross, Kenneth B. 10134
Gross, Kenneth I. 3305
Gross, Leonard 8263
Grossiord, J. L. 12030
Grossman, Edward H. 7426
Grossman, Jerrold W. 1218
Grossman, N. 6023
Grossman, R. I. 10791
Grossman, S. I. 5768
Grossmann, A. 1971, 4424
Grosswald, E. 14037
Grote, J. 2221
Grothendieck, A. 2386, ★5250
Groves, J. R. J. 400
Growney, J. A. S. 7684, 7685
Groza, G. G. 10852
Grubb, Gerd 1317
Grübel, G. 4760
Gruber, Boris 9730
Gruber, Martin J. 4605, 6913
Gruber, Peter 5974
Grudziński, Hubert 1983, 9448
Gruenberg, K. W. 424, 12927, 12876
Gruenhage, Gary 1170
Gruhne, Elke 14540
Grujić, Ljubomir T. 2290, 12300
Gruman, Lawrence 571
Grümm, H.-R. 1962, 6765
Grünbaum, Branko 2544, 3588
Grünbaum, F. Alberto 2544b, 3588
Grundmann, Axel 3239
Grüner, K. 1579
Grunskiĭ, I. S. ★4858
Grušin, V. V. *See* 6
Gruško, I. I. *See* ★4811
Gruson, Laurent 314
Gryzlov, A. A. 11275
Grzymala-Busse, Jerzy W. 4855
Gualtierotti, A. F. 6254
Guaraldo, Francesco 5225
Guazzone, Stefano 12739. *See also* 5264
Gubanov, G. P. 810, 3248
Gubbay, Bella 9425
Gubin, V. I. 11947
Gubkov, E. V. 1867
Gucunaev, C. I. 2094
Gudder, Stanley P. 4372, 5806, 8248
Gudehus, T. 9640
Gudovič, A. N. 13244
Gudovič, N. N. 4151, 11768, 13244
Gudžabidze, G. V. 11946
Guého, Marie-France *See* Vigneras, Marie-France
Guelman, M. 9202
Guenthner, Franz 9976
Guenther, William C. 14289
Guerin, Gilles G. 9652
Guérindon, Jean 10244
Guerrieri, Giuseppe 9937, 11612
Guertin, Ralph F. 6766, 9481, 9482
Guesnerie, Roger 2158
Guess, H. A. 11573
Guevara, E. 7108
Gugenheim, V. K. A. M. 6127, 13906
Guggenheimer, H. ★1746, 7953. *See also* 8457
Guha, Dipak Kumar 9381
Guía Marín, Josep V. 6093
Guiaşu, Silviu ★6828
Guichardet, Alain 2872, 12963
Guichelaar, Jan 11972
Guidorzi, R. 4745
Guignard, Monique 2191
Guigou, J. 9083
Guillaume, Pierre 4233
Guillemin, Victor 3769, 8737, 11416, 14007, 14009. *See also* 9915
Guillerme, Jean 7824
Guillou, L. 13924
Guiraud, Jean-Pierre 12084
Guivarc′h, Y. 10483
Gulati, H. C. 13169
Gulick, Frances F. 5853
Guljaev, V. I. 11548, 11557
Guljakina, N. A. 3556
Gul′ka, S. S. 3327
Gulliksen, Tor H. 2646
Gültekin Büyükyenerel, K. 11071
Gumański, Leon 12484
Günaydin, Murat 9428
Gunji, Hiroshi 325
Günther, H. 11817
Gunzig, E. 2091
Gupta, A. K. 14238a-b
Gupta, A. S. 4289
Gupta, B. C. 5879
Gupta, D. P. 10970
Gupta, Devendra 14187
Gupta, G. K. 11786
Gupta, H. L. 877, 5763
Gupta, Hansraj 2489, 5104
Gupta, Jatinder N. D. 2176, 9647
Gupta, K. C. 10993, 13481
Gupta, K. P. 8601
Gupta, N. D. 10414
Gupta, O. P. 13503
Gupta, P. K. 6320
Gupta, P. N. 2991
Gupta, R. G. 1611
Gupta, R. P. 3801
Gupta, Ramesh C. 14184

Gupta, S. C. 7894
Gupta, Shanti S. 3919, 3920. *See also* ★11951
Gupta, Shiv K. ★6890
Gupta, Surender K. 298
Gupta, V. C. 3622
Gupta, V. P. 2941, 2991, 7769, 7803
Gur'eva, V. P. 11201
Gurevič, B. M. 4449, 6805
Gurevič, Ju. G. ★4461
Gurevič, Ju. Š. 10003
Gurevič, L. A. 13540
Gurevich, B. M. *See* Gurevič, B. M.
Gur'janova, K. N. 569
Gurland, John 14193
Gurman, V. I. ★5931
Gurskiĭ, E. I. ★3776
Gurtovnik, A. S. 13222
Guru, B. P. 4124
Guruaja, J. 4333
Gurvitch, E. L. 13676
Gusak, A. A. ★5672
Gučin, A. K. 5616, 10855
Gučin, I. S. 11821
Gusel'nikov, N. S. 7742
Gusev, È. A. 7123
Gusev, G. I. 10212
Gusev, M. I. 4700
Gusev, S. I. 1441
Guseva, O. V. 9672
Gusjatnikov, P. B. 4701
Gustafson, G. B. 3070
Gustafson, Sven-Åke 6958
Gustafson, William H. 10331, 12877
Gustavson, F. G. 4834
Gut, Arthur 2836
Guth, Alan H. 14592
Gutiérrez, Mauricio A. ★3709, 10319
Gutman, I. 5049
Gutnikov, E. V. 11099
Gutowski, R. 6610
Guttman, Irwin 11638
Guttman, Lester 4036
Güven, R. 4533
Guy, Noël 3364
Guy, Richard K. 10055
Guyot, Roger ★8607
Guz', O. M. 4270 14501
Guz, W. 6767, 8320
Guzik, Bogusław 14295
Guzmán, Jorge González 9697
Guzunajew, Z. I. *See* Gucunaev, C. I.
Guzzardi, R. 5919
Gvanceladze, L. G. 1471
Gvišiani, A. D. 12992
Gyarmathi, A. 13704
Gyarmathi, L. 13704
Gyires, Béla 2692
Gylys, A. 10602
Györfi, László 1487

H

Ha, T. T. 9862
de Haan, Laurens 14022
Haas, Willard R. 1631. *See also* 1632
Haase, Dietrich 1984
Haavisto, J. 6792
Habbema, J. D. F. 11665
Haber, R. 12339
Haberlandt, R. 14664
Haberman, Shelby J. 3930, 11679
Habermann, A. N. 6599
Habicht, Walter *See* ★7180
Hačatrjan, I. O. 524, 848
Hačatrjan, K. N. 2962
Hacet, S. V. 14071
Hačev, M. M. 749
Hacisalihoğlu, H. H. 8459
Hack, Michel 11854
Hackevič, V. A. 3489
Hackevič, V. P. 9771, 9772
Hacyan, Shahen 13754
Haddad, Emile K. 4757
Haddad, Labib 8542
Hadidi, Nasser 6321
Hadjidemetriou, John D. 9203. *See also* 7157
Hadwiger, H. 1089, 1092
Hadži, P. I. 623
Hadžić, O. 3118
Hadžiev, Dž. 3354
Haefliger, André 8667
Haegemans, Ann 4069
Haff, C. E. 160
Hag, Per 3414
Hagedorn, P. 6972
Hager, Anthony W. 3658, 6095, 13841, 13867
Hager, William W. 3550
Haggett, P. *See* 1529
Haghany, Ahmad 7539
Haghany, Ghodsieh 3411
Hagopian, Charles L. 6101, 8586
Hähl, H. 13924
Hahn, Kyong T. 5509
Hahn, L. 11453
Hahn, Siegfried 11125
Hahn, Yukap 4425
Haifawi, Mahmoud 8247
Haight, Frank A. 13705
Haĭkin, Ju. E. 3510
Haimo, Franklin 5090
Haimovici, Adolf 3137. *See also* 8457
Haimovici, Mendel *See* 8457
Haĭrullin, R. H. 4483
Haitov, A. 4485
Hájek, J. *See* 2399, 11600
Hájek, Petr 71, 4960, 10016
Hájíček, P. 6852
Hajj, I. N. 2344
Hajnal, A. 6061, 6062, 11263, 12528
Hakansson, Nils H. 2140
Haken, H. 1949, 1985, 2045
Haken, W. 12561
Hakimdžanov, Ju. B. 10361
Hakimi, S. L. 2507, 2546
Hakstian, A. Ralph 11659
Halanay, A. 5582, 5591, 8383, 9204
Halász, G. 11467, 13034
Halberstam, H. ★12689
Halbhavi, I. G. 6141
Hald, Anders 1520
Hald, O. 4072
Hale, Jack K. 3128, 3573, ★7918, 10803
Hale, Mark P., Jr. 5011, 10046
Haley, David K. 2564
Halfin, S. 6330
Halikulov, I. B. 5434
Halilov, A. I. 6538
Halkin, Hubert 10525
Hałkowska, Katarzyna 7199, 7200
Hall, C. A. 4135
Hall, Charles A. 4061, 4141, 6451
Hall, Dick Wick ★10513
Hall, Donald E. 6864
Hall, Gaineford J. Jr. 6939
Hall, J. I. 5338
Hall, Japheth, Jr. 5017
Hall, M. A. 4680
Hall, Marshall, Jr. ★2765, 10051, 10916
Hall, P. G. 11468
Hall, R. R. 2603, 7437
Hall, William S. 7977
Hallam, T. G. 658
Hallbauer, Georg 4835
Hallin, M. 2222
Hallinan, Maureen 9734
Hallstrom, Alfred P. 8119
Halpern, Benjamin 3758, 13900
Halphen, Bernard 4252, 9267, 11924
Halyo, Nesim 2311
Hamachi, Toshihiro 7748
Hamada, N. 5001
Hamada, Nozomu 12302
Hamada, Takashi 157, 2537, 2538
Hamburg, Peter 6056
Hamilton, Richard S. 3750
Hamilton, William Rowan *See* 4896, 4908
Hamlett, T. R. 1163, 7784
Hammad, Pierre 9538
Hammer, J. 3594
Hammer, Michael 4198
Hammer, P. L. *See* 9654
Hammer, Roswitha 3583
Hämmerer, Norbert 10181
Hämmerling, Leo 10036
Hammers, William D. 11267
Hammond, P. 2539, 2540
Han, Byung Ho 4933
Hanazawa, Masazumi 96
Handa, S. 10993
Handelman, David 5291
Handkiewicz, Andrzej 165
Haneda, Horomasa 1585
Hanf, William 7252
Hangan, Théodore *See* 8457
Hänggi, P. 12095
Hanika, F. de P. *See* ★4732
Hanna, A. 7659
Hanna, M. S. 915
Hannsgen, Kenneth B. 5909
Hano, Jun-ichi 7872
Hanouzet, Bernard 8021
Hansel, Georges 8602
Hansen, E. R. *See* 4050
Hansen, John C. 11833
Hansen, Pierre 12184
Hansen, R. O. 2095
Hansen, Wolfhard 3002
Hansford-Miller *See* 1529
Hanson, D. L. 14219
Hanson, Donald A. 9624
Hansson, Åke 11878
Hanturina, S. A. 10262
Hantzschmann, Karl 13389
Hanyga, A. 4362
Haplanov, M. G 13545
Haq, M. Safiul 6365
Harada, Manabu 12833
Harari, Sami 2749
Harary, Frank 149, 151, 2523, 2541
Harase, Takashi 12671
Haratišvili, G. L. 11144. *See also* 6
Haratišvili, N. G. 7095
Harazišvili, A. B. 7728, 7749
Harborth, Heiko 5099, 12617
Harčenko, V. F. 1958, 1959
Harčenko, V. K. 12824
Harder, G. 12655, 12976, 12977
Hardie, K. A. 12850, 12863
Hardiman, Stephen T. 6279
Harding, E. F. *See* 3939
Hardisty, N. 1841, 4293
Hardy, Darel W. 5376, 10436
Hardy, J. P. L. 459, 12951, 12952
Hardy, J. W. 6503
Hargrave, B. A. 7909, 7910
Harinath, K. S. 445
Harish-Chandra ★2889
Harlamova, V. I. 10400, 10405
Harley, P. W., III 1176, 6092
Harnad, J. P. 6791
Harnau, Walter 59, 12479, 12480
de la Harpe, Pierre 6188, 12964
Harper, L. H. 4184
Harper, Thurman R. 9743
Harrington, A. 13074
Harris, C. W. 12258
Harris, Christopher J. 12327
Harris, Morton E. 7608
Harris, R. A. 12134
Harris, R. W. ★ 12340
Harris, W. A., Jr. 10736, 10775
Harrison, J. Michael 11710, 14150
Harrison, Jenny 6160
Harrison, Malcolm C. *See* 4173
Harrison, Michael A. 11857, 14454, 14474. *See also* ★11828
Hart, Johnson M. 9170
Hart, Oliver D. 9625
Hart, Sergiu 10540
Harte, R. E. 5834
Harten, A. 1640
Hartfiel, D. J. 7673
Harth, Fritz Peter 5950
Hartigan, J. A. *See* 14172
Hartley, B. 2808. 2819, 5360, 7628, 7629, 10428
Hartley, B. J. 6725
Hartley, Roger 9611
Hartman, Philip 630, 3085
Hartman, Stanisław *See* ★2405-★2407
Hartmanis, Juris 4193, 6550, 9149
Hartmann, Erich 8445
Hartmann, Heinz-Ulrich 14817
Hartnell, B. 138
Hartog, Joop 14751
Hartung, Joachim G. 14028
Haruki, Hiroshi 2964
Harvey, Reese 596, 13130
Harville, David A. 1498, 6394
Hasegawa, Akira 4283
Hasegawa, Hiroshi 4478
Hasegawa, Hisao 11910
Hasegawa, Izumi 8523
Hasegawa, Sigeru 13035
Hasegawa, Tokuhei 4894a-b
Hasenkamp, Georg ★2148
Hashimoto, Hiroshi 1179
Hasiewicz, Zygmunt 14577
Hasimov, Š. 1070
Hašimov, Š. A. 3949, 8972
Hasler, Martin 4444
Haslinger, Friedrich 8214
Has'minskiĭ, R. Z. 1452, 3931, ★11689
Hasofer, A. M. 8825
Hassan, Mohamed 1604
Hassell, M. P. 9731
Hastings, Harold M. 12864
Hastings, N. A. J. 4622
Hasumi, Morisuke 5459
Hata, S. 2313, 7079, 7080
Hatakeyama, Ittatsu 6258
Hatcher, Allen 3721, 8633
Hatiašvili, G. M. 11911
Hatvani, L. 3110, 10770
Haubitz, Imme 13765
Haug, E. J., Jr. 4098a-b, 7045, 9277, 11779
Hauge, E. H. 14685, 14686
Hauger, G. 7540
Haugh, Larry D. 6420
Haupt, Otto 7177
Haupt, P. 1806
Hauptfleisch, G. J. 12945
Hauptmann, Harry 9626
Haus, H. A. 11983
Hausman, Miriam 10114, 12704
Hausmann, Jean-Claude 11356
Haußmann, Werner 13390
Hautot, André 9516
Havas, George 12907
Havel, Ivan M. 1741, 14454
Havel, Václav 430, 1081
Haverland, U. 14250
Havet, Jean-François 947
Havinson, S. Ja. 2993
Havlíček, M. 10354
Havrda, Jan 7338
Hawkes, John 14038
Hawkes, R. M. 4784
Hawkes, Trevor 2789
Hawking, S. W. ★12154
Hawkins, Benjamin S. 7185
Hawkins, Douglas M. 3984
Hawkins, Thomas ★2904
Hayasaka, Takanori 104, 105
Hayashi, Kiyoshi 7929
Hayashi, Mikihiro 13083
Hayashi, Mitsutoshi 12613
Hayashi, Takeshi 4199
Hayden, T. L. 5917
Haydon, Richard 6069-6071, 8250, 11031
Hayek, Nácere 7905, 8179
Hayes, D. R. 5148
Hayes, John P. 4836, 12383
Hayes, M. 9307
Hayman, W. K. 568, 7809, 13100
Haymond, R. E. 14410
Hazen, Allen 7203
Hazod, W. 6222
Hearon, John Z. 10576
Heath, D. J. 14502
Heath, David C. 11483, 14117
Heath, Philip R. 13904, 13905
Heatley, A. H. 2345

Hebden, M. D. 5695
Hebert, D. J. ★6216
Heckendorff, Hartmut 14174
Hecker, H. 11617
Hecquet, Gérard 7995
Hector, Gilbert 1249
Hedayat, A. 6398
Hedetniemi, S. T. 119
Hedrick, Mark Blondeau 2696
Hedrlín, Z. 7575
Heerema, Nickolas 2633
Heffes, Harry 1419
Hehl, F. W. 2096, 4534, 6865, 14718
Heidemann, Dirk 10548
Heikkilä, Seppo 677
Heiler, Siegfried ★6421
Heilmann, O. J. 1377, 6815
Heimes, K. A. 1898
Heindl, Gerhard 6454
Heindler, M. 4455
Heineken, Hermann 7645
Heinen, James A. 4741
Heinig, Georg 11096, 13606
Heinig, H. P. 3384
Heinrich, Katherine 132
Heĭnrih, S. 956
Heinz, Hans-Peter 1035
Heise, Werner 114, 12356
Heisey, Richard E. 6146, 11373, 13923
Heĭsin, V. E. 1537
Heitmann, R. C. 5214
Hejhal, Dennis A. 2591
Hejný, Milan 10108
Heladze, Š. V. 5728
Helbig, M. 9026a-b
Held, A. 14719a-b
Helffer, B. 1318, 8002, ★8746, 13290
Helgason, Sigurdur 8169. *See also* 9915
Hell, Pavol 5166
Hellerman, Herbert 10018
Helleseth, Tor 9833
Hellman, Martin E. 12366. *See also* 9915
Hellwig, K.-E. 9449, 12003
Hellwig, Zdzisław ★3777, 11719. *See also* ★12415
Helpman, Elhanan 12172
Helson, Henry 5749a-b
Helstrom, Carl W. 9450
Helton, Burrell W. 3067
Helton, J. William 3485, 4764
Helton, Jon C. 11064
Hemdan, H. T. 13361
Hemmerle, W. J. 1576, 6392
Hemmerling, Armin 4863
Hempel, John ★3702
Henaut, Alain 7867
Henderson, C. R. 1494
Henderson, David W. 8591
Hendricks, W. J. 14113, 14114
Hendriks, Harrie 8634
Hendry, David F. 6440
Hendry, W. L. 3319
Hengartner, Walter 11446
v. Henke, F. W. 2434
Henke, Wolfgang 13792
Henkin, G. M. 3378
Henn, R. 4681
Henna, Jõgi 14207
Henno, J. 5079
Hénon, M. 10917
Henrard, Paul 4967
Henrici, Peter ★11796
Henriksen, Melvin 12734
Henry, Claude 2149
Henry, Jean-Pierre 5496, 13123
Henry, Myron S. 1612, 8120
Henschen, Lawrence J. *See* ★4209
Henstock, Ralph ★7725
Hensz, Ewa 787
Hentzel, Irvin Roy 5305, 10364
Heppner, E. 7710
Hérault, Daniel ★14455a-b
Herb, Rebecca A. 10498
Herbin, Gérard 14186
Herbut, Fedor 9429
Herczeg, János ★2410
Herdman, T. L. 5578
Herer, Wojchiech 495
Herer, Wojciech 10551
Herget, Charles J. 4785
Hering, H. 3870a-b, 8900
Heringson, E. 3422
Herman, Gabor T. 2240, 6567, 9171, 9990
Herman, M. R. 8708, 8723
Hermann, Robert 7699, 9451
Hermans, J. 11665
Hermes, Henry ★8380, 8719, 11389
Herneck, Friedrich ★9938
Herrero, Domingo A. 5878
Herrington, Larry L. 1166, 3647, 3655, 8553
Herrlich, Horst 8548, 13832, 13840
Herrmann, Christian 12591
Herrmann, W. 11940
Hersch, Joseph 8043
Hersh, R. 3845
Hervé, Rose-Marie 7825
Hervella, Luis 11255
Hery, William 11043
Herz, C. 8153, 13466
Herzog, Jürgen *See* ★304
Herzog, Marcel 387, 7593, 12918
Hess, Peter 10833
Hesselink, Wim H. 5253
Hetthéssy, J. 12339
Hettich, R. 3249
Hettmansperger, Thomas P. 3955
Hetzer, Georg 724
Hewer, Gary A. 7056
Hewett, John E. 14232
Hewitt, B. L. *See* ★4327
Hewitt, Edwin 3291, 8162. *See also* ★446, ★447
Heyde, C. C. 2244, 11468, 14039
von der Heyde, P. 2096, 2097, 14718
Heymann, Michael 7032, 7042
Heyting, Arend 2426
Heywood, John G. 761, 13346
Hiblot, Jean-Jacques 5221
Hibuhin, V. P. 12173
Hickin, Ken 7642
Hickman, J. L. 98, 7263
Hickman, James C. 4015
Hicks, T. L. 11284
Hida, Takeyuki 6249
Hietarinta, Jarmo 14645
Higa, Tatsuo 11418
Higgins, J. R. 4805
Higgs, Denis 7293
Hiida, K. 4543
Hiĭirbekov, T. E. 13313
Hikari, Michitaka 5296
Hildebrandt, B. 14245
Hildebrant, John A. 2862
Hilden, Hugh M. 8635, 13917
Hilden, J. 7277
Hile, Gerald N. 706, 10620
Hilgers, Hubert 4066
Hill, Bruce M. 14188. *See also* 3939
Hill, C. D. 8754, 11404, 13332
Hill, Victor E. ★7596
Hille, Einar ★11077. *See also* 10927
Hilliard, Jimmy E. 6914
Hillion, Pierre 9074
Hillman, A. P. 2490
Hills, R. N. 6624
Hilton, A. J. W. 4993
Hilton, P. J. ★4878, ★10368, 10439, 11310, 13908. *See also* ★2397, 8620
Himčenko, B. N. 8028
Himmelberg, C. J. 6966, 13016
Hinch, E. J. 14559
Hinds, James A. 1707
Hineva, Stefka T. 13800
Hinič, V. A. 12797
Hinich, Melvin J. 11657
Hinkelmann, Klaus 9717
Hinkley, D. V. *See* 3939
Hinkley, Sidney W. *See* 14138
Hintikka, Jaakko ★4911 7193
Hinton, Don 13193
Hinz, Jürgen G. 10208, 12714
Hipp, C. 8953, 11457
Hirabuki, Shinkichi 10232
Hirai, Kazumasa 9673, 14788
Hirai, Takeshi 368
Hirashima, Yasumasa 6134
Hirgiĭ, N. I. 5037
Hiriart-Urruty, Jean-Baptiste 13003, 13679
Hironaka, Heisuke 13127. *See also* 2386
Hirooka, Masahiko 1986
Hirsch, G. 12449
Hirsch, Morris W. ★3711
Hirschberg, D. S. 11842
Hirschhorn, M. D. 10037
Hirschman, I. I., Jr. 997
Hirschowitz, André 5234
Hirshman, S. P. 4472
Hirzebruch, F. 5245
Hischer, Horst 9964
Hitomi, Katsundo 14765, 14766
Hitotumatu, Sin 1564, 11733
Hitov, Hristó 10031
Hively, G. A. 998
H'juitt, È. *See* Hewitt, Edwin
Hlaváček, Ivan 14396
Hlawka, Edmund 5153, 10175, 12696
Hławka, Piotr 1463
Hleskov, V. I. 14601
Hljapova, E. A. 11184
Hmel'nickiĭ, I. L. 10332
Ho, C. Y. 2832, 5330, 10147, 10393
Ho, Chung Wu 8682
Hoang Duc Nguyen 14327
Hoang Šum 3853
Hoàng, Tuy 3544, 13519, 13686
Hoard, R. E. 2678. *See also* 2679
Hoare, A. H. M. 10409
Hoare, C. A. R. 9134
Hobbs, Arthur M. 2535, 5042
Hobot, Grażyna 4111
Hochman, E. 1338, 12203
Hochstadt, Harry 10906, 13199
Hochster, Melvin 296, 5230
Hocking, J. G. 13925
Hodel, Margaret J. 2480
Hodel, R. E. 6058, 11274
Hodges, Wilfrid 10014
Hodžabagjan, S. S. 1455, 1521
Hoeffding, Wassily 9939
Hoehnke, H.-J. 2690, 6560
Hoel, David 1449, 14202
Hoem, Jan M. 1524, 11542
Hoenselaers, C. 6853
Hoepelman, J. Ph. 9976
Hoey, Dan 14441
Hoff, Georges 12862
Hoffman, Alan J. 10641
Hoffman, Christoph M. 6539
Hoffman, D. K. 4482
Hoffman, David 11365
Hoffman, F. 12554
Hoffmann, Christoph M. 9135
Hoffmann, F. *See* 2471
Hoffmann, H.-J. 9176
Hoffmann, Joseph F. 302
Hoffmann, Patrick 6683
Hoffmann-Jørgensen, J. 5421, 11429
Hoffner, Charles W., II 7134
Hofler, John T. 3355
Hofmann, H. M. 9501
Hofmann, Karl Heinrich 452, 5397a-d, 12955
Hofmann, Reinhard 14325
Hofmeister, Gerd 10181
Höft, Hartmut 7328
Höft, Margret 7328
Hogan, D. T. 13861
Hogan, P. A. 4509, 9575, 12135
Hogan, William W. 8985
Hogg, Robert V. 3953, 11647, ★14169. *See also* 1424
Hoggar, S. G. 12801
Hoggatt, V. E., Jr. 216, 2578, 5014, 5105, 5516, 10128, 10129, 12535, 12541, 12623
Hohenberg, Fritz 1077, 3571, 5263
Höhle, Ulrich 10553
Hohler, P. 2627
Hohlov, R. V. 12444
Höhn, Werner 4152
Hohrjakov, A. Ja. 7941
Hojka, N. 14456
Hojman, Sergio A. 4535
Holdgrün, Horst S. 581, 582, 5748
Holgate, P. 6987
Holioulias, A. A. *See* 7157
Hollai, Márta 5978a-b
Holland, A. S. B. 816, 3250
Holland, Charles J. 8865
Holland, Paul W. 12252
Holland, W. Charles 5076
Hollander, Myles 1502
Holley, Richard 1422
Hollingsworth, J. G. 8644
Hollstein, R. 8317
Holm, Sture 11682
Holman, W. J., III 627
Holmann, H. ★2949, ★2950
Holmes, Richard 893, ★8381
Holmstedt, Tord 3440
Holmuradov, È. 13488
Holsapple, K. A. 6616
Holševnikov, K. V. 10710
Holt, R. 5517
Holte, John M. 6305
Holton, D. A. 2518, 5043a-b, 10067
Holub, J. R. 5885
Holyhead, P. A. W. 1678
Homenko, M. P. 124, 166, 10056, 10057, 13927
Homentcovschi, D. 8190, 8276
Homič, V. I. 2427
Honda, Namio 7142
Hong, S. J. 12384
Hong, Shin Tzy 4357
Hong, Suk Ho 5861
Hongan, Motoshi 7526
Honig, E. 8501
Honsberger, Ross ★7150
't Hooft, G. 1922, 1923
de Hoog, F. R. 11741
Hoogland, H. 6715
van Hoorn, M. C. 5958
Hopcroft, John E. ★1706
Höpfinger, Eckhard ★9704
Hopkinson, J. F. L. 2117
Höpner, Matthias 9172
Hoppe, Fred M. 6306, 8903, 14131
Hoppe, J. 4864, 9888
Hoppensteadt, F. 668, 5927, 10776, 10777
Hora, N. S. 10703, 13170
Hordijk, Arie 11690, 14151
Horecký, Ján *See* ★11872
Horgan, Cornelius O. 5644
Horikawa, Eiji 5508, 12789
Horisberger, H. P. 4772
Horiuchi, Kazuo 4758, 12291
Hörmander, Lars 7997
Horn, Berthold 4211
Horn, Der Kie 8947
Horn, F. 2041
Horn, W. A. 9648
Horndeski, Gregory Walter 9576
Horne, G. J. 12281
Horne, J. G. 453
Hornich, Hans 2942
Horosko, M. P. 5690
Horowitz, Charles 7831
Horowitz, Ellis ★6540
Horowitz, Joseph 6251
Horrent, J. J. 12852
Horrocks, G. 7487
Horsley, R. 4423
Horst, Reiner 12213

Hortmann, Michael 10674
Hortobágyi, István 13728
Horvath, Edward C. 4177
Horváth, J. 13731
Horváth, Z. 9483
Horwitz, G. 9599
Horwitz, Lawrence P. 14633
Hosack, J. M. 991
Hoschek, Josef 8482
Höschel, Hans-Peter 13591
Hošimov, Š. *See* Hašimov, Š.
Hosszú, M. *See* 8059
Hotelling, Harold *See* 9939
Ho Tho Cao 5711, 8087
Hotje, Herbert 5965
Hotz, Günter ★1688, 14440
Houghton, C. H. 2845, 12913
Houh, Chorng Shi 8488
Hounie, Jorge G. 10868
Houston, Evan G., Jr. 2641
van Houwelingen, J. C. 11598
Hovanessian, S. A. ★4030
Hovanskiĭ, G. S. *See* ★14414
Ho-Van-Thi-Si 5482
Howard, A. 13143
Howard, F. T. 5444
Howard, Joe 3347
Howden, William E. 14428
Howe, M. S. 1842
Howe, P. 14590
Howe, R. B. 1407
Howe, Roger 10508
Howell, T. 6466
Howes, F. A. 7934
Howland, James S. 5871, 5875
Howlett, R. B. 388
Howze, J. W. 9748
Hoy, W. S. 12212
Hoyer, Wolfgang 14357
Hoyle, M. H. 11586, 11587
Hrabustovskiĭ, V. I. 3076
Hrapčenko, V. M. 14881
Hrbacek, Karel 9975
Hrenov, L. S. *See* ★4032
Hristianovič, S. A. *See* ★9963
Hristov, Hr. Ja. 5702, 9497
Hristov, Hristo Iv. 1843
Hristova, E. H. 9476a-b
Hristova, Ivanka 4281
Hsia, J. S. 12644
Hsia, Wei Shen 2203
Hsiang, Wu Chung 1235, 13949
Hsiang, Wu Yi ★11363, 13947
Hsiao, Cheng 9031
Hsiao, George C. 13359, 14514
Hsieh, Chao Hsiung 2612, 10096, 10169
Hsieh, Hsueh Y. 14329
Hsieh, M. S. 951, 8312
Hsieh, P. F. 10719
Hsieh, S.-H. 9308
Hsieh, W. N. 4184
Hsing, Deh-phone Kung 13510
Hsiung, Chuan Chih 6172, 13793
Hsu, C. J. 5063
Hsu, C. S. 5542
Hsu, David Y. 3064
Hsu, Ih Ching 3356, 11059
Hsu, J. P. 12059
Hu, B. L. 12106
Hu, Hung Tzaw 454
Hu, T. C. 9661
Huang, Charlotte 7292
Huang, Deng Yuan 3919
Huang, Han Shui 7516
Huang, Ter Jenq 460
Huang, Wen Tao 1459, 3920
Huard, Pierre 9674
Huband, F. L. 2678. *See also* 2679
Hubbard, John R. 8238
Hubbuck, J. R. 13937
Huber, Alfred 8538, 13068
Huber, H. *See* ★5057
Huber, Martin 12745
Huber, Oswald *See* ★7187
Huber, Peter J. 6375
Hubert, D. 2065
Hübner, Gerhard 2214
Hudaĭberdiev, S. 5474
Hudaĭkuliev, O. 4588
Hudaĭ-Verenov, O. M. 13274
Hudak, Ju. I. 11083
Hudaverdiev, K. I. 740
Hudiĭ, M. Ĭ. 12807
Hudson, Richard H. 10172
Hudson, William N. 14040
Huet, Gerard P. 2442, 6583
Huff, R. E. 897
Huggins, Frank N. 7716
Hughes, Charles E. 4955
Hughes, David K. 679
Hughes, J. W. B. 14634, 14635
Hughes, Thomas J. R. 8041
Huguenin, P. 1964
Huhro, E. I. 2798
Hukuhara, Masuo 3114
Hulanicki, A. 6298
Hule, H. 5091
Hule, Harald 301
Hullett, Wayne 5934
Hultz, John 4674
Humi, Mayer 692, 14737
Hummel, Robert A. 6591
Hung, C. U. 12486
Hung, Ch'êng Wan 12485
Hunnargikar, Ranjana 11016
Hunt, H. B. III 6568, 9150
Hunter, David 3802
Hunter, G. 9502
Huntington, Raymond J. 8786
Huntley, E. 9084
Huq, S. A. 5321
Hurd, A. E. 4985
Hurd, R. A. 1886
Hurley, William J. 12008
Hurrelbrink, Jürgen 7648, 10432, 12921
Hurst, C. A. 1921
Hurt, Jan 6350
Hurwicz, Leonid 12174
Hurwitz, R. Daniel 414
Husain, S. I. 13776a-b
Husain, T. 8206, 8222
Husainov, D. Ja. 3111, 5562, 10773
Hušbakov, Š. D. 5475
Hušek, Miroslav 3645
Husemoller, Dale 1222
Husnetdinov, M. Z. 13289
Hussain, Munawar 1758, 6607, 9205
Husseini, S. Y. 8615
Huťa, Anton *See* 31
Hutcheson, Kermit 14190
Hutchinson, John J. 7517, 12825
Hutter, K. 6697
Huxley, M. N. 252
Huỳnh Mùi 10440
Hvedelidze, B. V. 33
Hwang, F. K. 2167, 10083
Hwang, J. S. 522, 523
Hyafil, Laurent 1712, 4178
Hyman, J. M. 1640
Hyun, Kwang Nam 4682
Hyvönen, Jaakko 7826

I

Iannacci, Rita 2432
Iannelli, Mimmo 13648
Ibaraki, Toshihide 4642, 6551
Ibarra, Oscar H. 1716, 1722, 2177, 9863
Ibarrola Muñoz, María del Pilar 6385, 14177
Ibero, Michel 11648
Ibragimov, I. A. 1452, 3931
Ibragimov, I. I. 10612
Ibragimov, K. H. 1807
Ibragimov, M. A. 8356
Ibragimov, N. H. 13960
Ibragimov, V. R. 1613
Ibramhalilov, I. Š. 11703
Ichijyō, Yoshihiro 13819
Ichikawa, Yoshi H. 9328
Ichino, Manabu 6589
Idel'son, N. I. ★2401
Iglehart, Donald L. 11690
Ignat, Margareta 9309
Ignatenko, V. V. 3557
Igošin, V. I. 206
Igusa, Jun-ichi 5119
Ihara, Yasutaka 10210. *See also* 14-16
Iitaka, Shigeru 7462
Ikeda, Satoshi 2014, 9484
Ikeuchi, Satoru 2121
Ilamed, Y. 1921
Iliadis, S. D. 6125
Iliev, G. L. 831
Ilieva, K. D. 9532a-b
Il'in, V. A. 3283, 3504, 9929. *See also* 6
Il'in, V. P. 14331
Il'in, Yu. M. *See* Ill'in, Ju.
Ilioi, C. 14330
Il'jasov, I. I. 258
Iljuhin, A. G. ★4359
Il'jušin, A. A. ★9232
Ill'in, Ju. 9485
Illingworth, C. R. *See* ★4327
Il'muškin, G. M. 11094
Ilori, S. A. 12798
Il'ze, H. 11558
Imai, Hideo 5247, 5485
Imanishi, Hideki 3717, 8668
Imaoka, Teruo 10451
Imaz, Carlos 6112
Imbert, N. 9766
Imecs, Maria 8436, 8437
Inada, Ken-ichi 9612
Inasaridze, H. N. ★7588
Indermark, K. 2434, 6569
Indihar, Stane *See* 7149
Indlekofer, Karl-Heinz 2570
Ineichen, R. 4710
Ingarden, Roman S. 11177
Ingleton, A. W. ★10532
Inkeri, K. 10166
Inönü, E. 9520
Inoue, K. 14079
Inoue, Masahisa 5244
Inouye, Hiroshi 4614
Insel, Arnold J. 2876
Inselberg, A. 9039
Installé, M. 7069
Intriligator, Michael D. *See* ★6896
Ioffe, A. F. ★2402, ★2403
Iohvidov, E. I. 3486, 3487
Ionescu, D. V. *See* 8059
Ionescu, Vlad 4742
Ionescu-Pallas, Nicholas 4536
Iordaniĭvili, È. A. 6836
Iosifescu, Marius 5163
Iosif'jan, G. A. 699
Iri, Masao 4641
Irmay, S. 1844
Irons, Bruce M. 11813
Isaacs, I. M. 332
Isaacson, David 10778
Isaacson, Dean 3904
Isac, George 8223, 8369, 13103
Isaev, G. A. 13608
Isaĕv, Ju. Ĭ. 1757
Isahanov, R. S. 2981
Isakov, V. M. 5652, 8058, 10904
Isbell, John R. 212, 10449
Iščenko, E. N. 1101
Iščuk, V. I. 1738
Ise, Mikio 7878
Iséki, Kiyoshi 987, 1190-1194, 3679, 6114-6116, 7248a-d, f, h, 10092, 11303-11305, 13642, 13643
Iseki, S. 12453
Isenberg, C. 6465
Isham, C. J. 4391, 12024, 14705
Išhanov, V. V. 2620
Ishibashi, Yasunori 2648
Ishida, Makoto 272
Ishihara, Takaomi 1944
Ishii, Goro 8961
Ishii, Hiroaki 4642
Ishii, Tadashi 6083
Ishii, Takeo 1585
Ishikawa, Nobuhiro 1201
Ishikawa, Shiro 1030
Ishikawa, Susumu 11222
Ishimaru, Akira 4357
Ishimoto, Hiroyasu 1258
Ishitoya, Kiminao 3731
Ishizima, Shintaro 4750
Isidori, Alberto 4747, 12271
Iskander-Zade, Z. A. 14389
Iskenderov, A. D. 11808
Iskovskih, V. A. 305, 319
Islamov, G. G. 678
Isler, Romano 3640
Islinskii, A. Ju. *See* ★9288
Ismagilov, R. S. 475, 2887, 3425
Ismailov, M. A. 1790
Ismatov, M. 13334
Ismoilov, D. 5152
Isomichi, Yoshinori 14894
Isomoto, Yukuo 1553
Ispas, C. I. 1115
Israel, Giorgio 5200
Israel, Werner 11995
Israpilov, R. B. 3217
Issa, R. B. 2979
Istrăţescu, Ioana 3677, 11293, 13884
Istrăţescu, Vasile I. 3203, 3520, 3521
Itai, A. 12380
Itakura, H. 12333
Itaya, Nobutoshi 9310
Itenberg, I. Ja. 6846
Itkin, V. È. 11855
Itō, Akira 12080
Ito, Hitoshi 6768
Ito, Keiichi R. 2039
Itō, Seizō 5484
Ito, Takashi 11037
Itō, Takehiro 6036
Ito, Yoshifusa 7813
Itoh, Takashi 6749
Iturrioz, L. 5078, 10011
Itzkan, Irving 12882
Ĭvahnenko, O. G. *See* ★9189
Ivančev, M. D. 4643
Ivanenko, O. D. 11557
Ivanov, A. D. 5994, 5995, 13736
Ivanov, A. V. 5617
Ivanov, G. A. 3876
Ivanov, G. I. 11194
Ivanov, L. A. 1013
Ivanov, M. Ja. 4329
Ĭvanov, O. V. 9011, 11298
Ivanov, S. G. 7638, 7639
Ivanov, V. I. 829, 832, 4344-4346
Ivanov, V. P. 4338, 7007
Ivanov, V. V. 4349, 4350, 4558a-b, 6883
Ivanov, V. V. 11106
Ivanov, V. V. ★2259
Ivanov, V. V. *See* ★9919, ★9920
Ivanov, V. V. 4099, ★14412
Ivanov, Vladimir V. 14269
Ivanova, S. A. 6484
Ivanova, T. V. 14259
Ivanova-Karatopraklieva, Ivanka 3633, 13801
Ivcenko, G. I. 14259
Ivlev, D. D. 4244
Ivlev, E. T. 8481, 11208
Ivnickiĭ, V. A. 8919, 8920
Ivockina, N. M. 5617
Ivriĭ, V. Ja. 3171, 3172, 10869
Iwaniec, G. 4253, 11912
Iwaniec, H. 261
Iwanik, Anzelm 1004
Iwasaki, Keiko 13762
Iwata, Güti 14305
Iwatani, Teruo 6044, 6045
Iwasawa, Kenkichi 10197
Ixaru, L. Gr. 6507, 9499
Iygi, A. *See* Jügi, A.
Izaak, D. F. 8424
Izawa, Tatsuo 10325
Izé, A. F. 5580
Ize, Jorge 13649
Izobov, N. A. 9934. *See also* 13
Izraileviĉ, A. Ja. 11348
Izraileviĉ, Ja. A. 1205
Izraileviĉ, V. L. 3739

J

Jablonskiĭ, A. I. 13179
Jacak, Witold 7011
Jacenko, N. Ja. 810, 3248
Jackin, N. I. 8688

Jackson, D. M. 2481, 10069
Jackson, Douglas E. 109
Jackson, Howard L. 7810
Jaco, William 3706
Jacobs, Marc Q. 5947
Jacobson, D. H. 4799, 7086
Jacobson, Steven 7794
Jacod, Jean 6263-6265
Jacoš, Vasil 154
Jacquard, Albert ★9718a-b
Jacquet, Hervé 283, 12660
Jacy Monteiro, L. H. ★10184
Jadczyk, A. Z. 1987
Jadina, V. F. 12398
Jadrenko, M. I. 6252, 6253, 6255, 14071, 14081
Jafaev, D. R. 9414
Jafarov, Š. A. 6003
Jaffe, Arthur 1981, 1982, 6755
Jaffee, Harris A. 613
Jagubov, M. A. 13507
Jahno, V. G. 767
Jain, D. L. 9355
Jain, G. C. 3801, 9028
Jain, M. K. 14392
Jain, N. C. 5751
Jain, Naresh C. 1356
Jain, O. P. 4672
Jain, P. K. 2941, 7769, 7803
Jain, R. K. 3324, 9292, 11970, 14378
Jain, S. K. 12829
Jain, V. K. 2930
Jai Singh, Sawai, II *See* 7166
Jaiswal, Anuradha 850, 898, 1195, 6096
Jaiswal, D. V. 13357
Jaiswal, M. C. 1437
Jajte, R. 1339
Jaju, R. P. 10996
Jakimčuk, G. S. 7016
Jakimīv, Ja. M. 4426, 4436
Jakimovski, A. 10924
Jakobson, M. V. 6199
Jakovlev, N. N. 3662. 3663
Jakovlev, V. P. 2266, 9801
Jakovleva, M. A. 4631
Jakovleva, N. A. 263
Jakubik, J. 201
Jakubov, S. Ja. 669, 3119
Jakubovič, V. A. 10755
Jakubowski, Zbigniew Jerzy 2946
Jakuszenkow, Helena 8962
Jakymiv, Ja. M. *See* Jakimīv, Ja. M.
Jalobeanu, M. 5315
Jama, Danuta 8867, 8868
Jambor, P. 2710, 2711
James, David A. 238
James, David V. 6480
James, G. D. 5329
James, Richard M. 11967
James, Robert C. 5811
Jamison, James E. 3372
Jamison, R. E. 13532
Jamshidi, M. 2279, 9781
Janas, J. 999, 8744, 13620
Jancevič, A. A. 7089
Janczar, Bogdan 10588
Janenko, N. N. *See* 6
Janev, N. I. 4643
Jang, Pong Soo 14713
Janicka, Renata 8196
Janiec, Barbara 8867, 8868
Janis, Allen I. 10863
Jank, Gerhard 10619, 13282
Jank, Walther 8438
Jankauskas, K. I. 14600
Janke, Werner 14349
Jankiewicz, Maria 11520
Janko, Zvonimir 7613
Janković, Z. 1107, 8491
Jankovskiĭ, G. *See* ★14475
Jankowski, Tadeusz 14358
Janoš, Ludvik 7954, 8603, 10716, 13885, 13886
Janovský, Vladimír 1662
Janowitz, M. F. 2558
Janpol'skiĭ, A. R. ★2370
Jansen, K.-H. 10888
Jansen, R. 14301
Janssen, Gerhard 12846
Janssen, Jacques 14141
Janušauskas, A. I. 3149, 14017
Januszkiewicz, Janina *See* ★12430
Jarcev, Ju. 1626, 1679
Jarden, Moshe 12517
Jaremčuk, O. P. 6933, 6934
Jarić, J. 14527
Järnefelt, G. 12136
Jarosch, H. S. 9724
Jaroševič, G. O. 7945
Jarušek, V. E. 4207
Järvinen, Pertti 12220
Jarvis, C. L. 3996
Jarvis, R. A. 14835
Jasakov, A. I. 13247
Jasins'ka, Ē. U. 11160
Jasjiulionis, A. 5280
Jasnogorodskiĭ, R. M. 6316
Jastrebov, A. V. 3610
Jastremskiĭ, A. I. 2195, 9627
Jategaonkar, Arun Vinayak 2725
Jauch, J. M. 849, 6769, 6770
Jaulent, M. 4335
Jaumain, Christian 4014
Javorskiĭ, M. T. 3105
Jayakar, S. D. 2247
Jayarajan, N. 1558, 4068
Jayasri, Totadri 9197
Jaynes, E. T. 14173
Jean, M. 5824
Jean, M. 13688
Jeanquartier, Pierre 8707
Jeffery, R. L. 2898. *See also* 2391
Jeffrey, A. ★5635
Jeggle, Hansgeorg 1680
Jelffs, M. W. 12357
Jelinek, Frederick 4813
Jeng, Bor-Ren A. 7128
Jenkins, J. D. 6741, 6742
Jenkins, J. W. 2866
Jenner, W. E. ★10349
Jennergren, L. Peter 9623
Jennergren, Peter 2141
Jennrich, Robert I. 9099, 11660
Jensema, Carl J. 11714
Jensen, D. 7244
Jensen, D. R. 6351
Jensen, E. 10590
Jensen, Finn V. 2452, ★12432
Jensen, Louis 3989
Jensen, Paul S. 1634
Jensen, Ronald B. 7253
Jerome, Joseph 9040, 13602
Jerri, A. J. 13482
Jetter, K. 9056, 10928, 13372
Jeurissen, R. H. 168
Jevricki, A. 14610
Jewell, William S. 11711
Jewett, Robert I. *See* 9915
Ježek, J. 7354, 10466
Jezuita, K. 4410
Jha, M. P. 3995
Jhangiani, V. 12137
Jílek, M. 8910
Jirků, Petr 4912
Joffe, Ruth *See* ★2161, ★2162
Jogdeo, Kumar 3799
Jõgi, A. 1554
Johansen, Peter 11858
John, Fritz 10592
John, K. 5807, 11032
John, O. 3151
John, Peter W. M. 7280, 14255
John, Reinhard 12604
Johnsbråten, Havard 7253
Johnson, B. E. 3415, 5835
Johnson, Bruce McK. 6341
Johnson, C. D. 4755, 12294
Johnson, C. Richard, Jr. 9808
Johnson, Charles R. 12809
Johnson, Coates R. 2077a-c
Johnson, D. S. 6549, 6929, 6930, 14439
Johnson, D. T. 4215
Johnson, Darell J. 796, 5712
Johnson, E. W. 191, 2555
Johnson, F. E. A. 11341
Johnson, J. A. 3379
Johnson, J. H. 9047
Johnson, Johnny A. 5220
Johnson, Jon L. 300
Johnson, Kenneth D. 12974
Johnson, L. W. 6445
Johnson, Norman L. ★6378, ★11585, 13717
Johnson, P. 2913
Johnson, Richard A. 6354
Johnson, Russell A. 10552
Johnson, S. C. 1575
Johnson, T. L. 9819, 11143
Johnson, W. B. 5808, 8224, 13536, 13621
Johnsonbauth, Richard 11289, 13846, 13903
Johnston, H. C. 11838
Johri, R. S. 10707
Joiner, Charles 448
Joly, Jean-Luc 1049, 8090
Jonah, D. A. 4497
Jøndrup, S. 7546
Jones, A. J. 10141
Jones, Burton W. 12645
Jones, C. E. 9438
Jones, D. S. 1845
Jones, Douglas H. 8941, 13405
Jones, F. Burton 1165
Jones, James P. 2615
Jones, Lowell 8686
Jones, Robert T. *See* 12422
Jones, V. F. R. 6708
Jones, W. E. 2334
Jones, William B. 13400
deJonge, Ep 11045
Jordan, C. W. *See* 9026b
Jordan, Camilla R. 7528
Jordan, G. S. 13511
Jordan, Steven L. 1126, 5460
Jõrgens, K. 8047
Jørgensen, Palle E. T. 11107
Joris, H. 7383
Jorna, S. 4451
Joseph, D. D. 4294, 6676
Joseph, James E. 1145, 6082, 8571, 13852 13853
Joshi, B. K. 5764
Joshi, C. M. 8183
Joshi, D. G. 3307
Joshi, N. E. 11016
Joshi, V. M. 1453
Josselson, R. 2294
Jouanolou, J. P. 5239
Jouvet, B. 6771
Joyner, William H., Jr. 14423
Jucan, T. 703
Jucis, A. P. *See* Jucys, A. P.
Jucys, A.-A. A. 7283, 7597
Jucys, A. P. 1911, ★4427
Judd, B. R. 1919, 1924
Judd, J. S. 2574
Judenkov, V. A. ★4055
Judickaja, P. I. 1357
Judin, D. B. 4651, 6950
Judin, V. A. 5739
Judin, V. M. 9574
Juhász, I. 6062, 11263
Juldašev, Z. H. 6508, 11787
del Junco, Andrés 2914, 7750
Juneja, O. P. 5464
Jung, C. F. K. 774, 3206
Jung, F. R. 774, 3206
Jung, H. A. 2542
Junggeburth, J. 5715
Jupp, D. L. 9043
Jurčuk, N. I. 766
Jurkevič, O. M. 12193
Jurksztowicz, A. 2933
Jury, Eliahu I. 1577, 2932, 5274, 7055, 9071
Juščenko, E. L. *See* ★9919, ★9920
JušKys, A. 12686
Just, K. 14636
Jusupov, A. 1070

K

Kaaz, M. A. 2227, 9698
Kabaila, Paul V. 13670
Kabak, G. I. 7942
Kabakov, F. A. *See* ★4907
Kabalevskiĭ, A. N. 11572
Kabanov, Ju. M. 1375
Kabatjanskiĭ, G. A. 12350
Kabe, D. G. 1481
Kabulov, R. 3336, 3451, 3452, 10785, 10786, 11126
Kac, A. V. 14655
Kac, B. E. 4200
Kac, G. A. 1221
Kac, M. 12085, 14480
Kac, M. P. 8282
Kac, V. 5364, 7489
Kacewicz, B. 11769
Kacnelsons, L. 14317
Kačurina, N. I. 11202
Kacygin V. V. *See* ★4219
Kaczorek, Tadeusz 2287, 9749
Kadec, M. I. 5813
Kado, Jiro 7551
Kadomcev, B. B. 12444
Kadosch, M. 6932
Kadota, Yoshinobu 6285
Kadykenov, B. M. 5637
Kadyševskiĭ, V. G. 9477, 9478a-b, 9479a-b, 9480
Kaekebeke, M. 14624
Kafadar, C. B. 4510
Kagan, A. M. 1454. *See also* ★11424
Kagan, F. I. 6018
Kageyama, Sanpei 5002, 5003, 6399, 6400
Kagiwada, H. 14824
Kahan, Steven 10120, 12618
Kahane, Jean-Pierre 814, 13708
Kahaner, D. K. 6443
Kahle, Dieter 10520
Kahn, Gilles 14429
Kaigh, W. D. 3786
Kaĭ Lai Čžun *See* Chung, Kai Lai
Kailath, Thomas 1374, 4787, 8413, 12313, 12314
Kainen, Paul C. 5031
Kairies, Hans-Heinrich 13048
Kaiser, Klaus 4968
Kaizu, Satoshi 3497
Kajitani, Yoji 12385
Kajuk, Ja. F. 9261, 9262
Kajiwara, Mitsuharu 11088
Kakičev, V. A. 3511, 13107
Kakiuchi, Itsurô 3956
Kako, Takashi 756
Kaku, Michio 4380
Kala, R. 1489, 3978, 9068
Kalaba, R. E. 2267, 14824
Kalai, G. 4693
Kalandarišvili, S. G. 1461
Kalas, Josef 653
Kalašnikov, A. S. 13323, 14575
Kalašnikov, O. K. 9421
Kalašnikov, V. V. 1392
Kalbfleisch, J. D. *See* 1447
Kalf, H. 10888
Kalia, R. N. 7637
Kalinauskaitė, N. 11447
Kalinauskas, R. K. 6716, 14594
Kalinin, S. V. ★14842
Kalinin, V. A. 8604
Kalinin, V. V. 181, 182
Kalinkin, L. F. *See* ★14584
Kalinowski, Józef 6111
Kaljaev, A. V. 9864, 14307
Kalka, M. 604
Kalla, S. L. 3308, 7885, 8175, 8193, 10993, 13481, 13484, 13505
Kallenberg, Olav 5198, 11494
Kallianpur, G. 8834. *See also* 18
Kallman, Robert R. 5382, 5384, 5385
Källström, A. 5881
Kalman, P. J. 12166
Kalman, R. E. 9745
Kalmár, László *See* 9955, 9956
Kalmbach, Gudrun *See* ★7327
Kalmykov, S. A. 6508, 11787

Kalnajs, Agris J. 2125, 2126
Kalnberzin', A. Ja. 12386
Kaloni, P. N. 14558
Kalton, N. J. 3296, 3350, 8215, 12237
Kalugina, T. F. 13296
Kalužnin, L. A. 30. *See also* ★9919, ★9920
Kamalamma, K. N. 445
Kamber, Franz W. ★1250
Kambouzia, M. 3796
Kameda, T. 5028, 12374, 12387, 12556
Kamefuchi, Susumu 12013
Kamenev, I. V. 639
Kamenskiĭ, M. I. 6185
Kametaka, Yoshinori 10861
Kamga, Jean Wouafo 1254
Kaminger, F. P. 7113
Kaminogou, Takashi 7929
Kaminskas, Vytautas 8990
Kamiński, B. 10561
Kamionka-Mikuła, Halina 9865
Kamiyama, S. 7022
Kamke, È. ★3061, ★3062
Kammler, David W. 13410, 13411
Kamont, Z. 10765, 10787
Kamp, Hans 7194
Kampen, G. R. 5034
van Kampen, N. G. 1377, 1378, 2066, 9521
Kamps, Klaus Heiner 7176, 13905
Kamthan, P. K. 551, 2965, 5814, 8216, 13097
Kamynin, L. I. 8028
Kamytov, T. 3328
Kamzolov, A. I. 13412
Kan, D. M. 1210
Kanal, Laveen 11874
Kanatnikov, A. N. 5470
Kanatov, Ĭ. Ĭ. 8983
Kandelaki, T. K. 11333
Kander, Zvi 4009
Kandzia, P. ★14415
Kane, Richard 6131, 11320
Kane, T. R. 11794
Kaneko, Akira 700
Kaneko, Toshinobu 9838
Kanemitsu, Shigeru 249
Kang, Andy N. C. 6552
Kangro, G. F. 3209. *See also* 13
Kaniewski, J. 2468
Kanitani, Jōyō 1280, 8695-8697
Kaniuth, Eberhard 5386
Kann, Edgar 8532
Kannai, Yakar 3183, 4582, 6901
Kannan, D. 14099
Kannan, R. 5543
Kannappan, Pl. 2337, 2859, 7686, 8063
Kanno, Ryuzo 1475, 8963
Kano, Mikio 2840
Kano, Takeshi 259
Kanoh, Satoru 1492
Kanovič, M. I. 11846
Kantarija, G. V. 12254
Kanter, Marek 3836
Kantor, B. E. 11246
Kantor, William M. 10429
Kantorovič, L. V. 6906. *See also* 2138, ★9963
Kantorovitz, Shmuel 3458
Kantowski, R. 9598
Kanwal, R. P. 9355
Kapanadze, Dž. V. 5483
Kaper, Hans G. 797
Kaplan, A. A. 5817, 11149
Kaplan, James L. 670
Kaplan, Norman 1420, 6302
Kaplunovič, Ja. S. 7946, 7947
Kapoor, G. P. 5464
Kapoor, K. 4517
Kapoor, S. F. 7307
Kappel, F. 683, 13259
Kappos, D. A. 8860
Kapranov, Ju. I. 4280
Kapšiviĭ, O. O. 9236
Kapur, J. N. 223
Karadžov, G. E. 3512. *See also* 22
Karahanjan, M. I. 8294
al-Karajī, Abū Bakr Muḥammad ibn al-Ḥusain *See* 12436
Karakaş, H. İbrahim 12782
Karande, B. K. 110
Karapenev, H. K. 11559, 14146, 14147
Karataev, R. N. 13422
Karatoprakliev, G. D. 10882
Karcanias, N. 7023, 9754
Karčev, N. I. 12018
Karčevskiĭ, V. P. 12411
Karchev, N. I. *See* Karčev, N. I.
Kard, P. 2073, ★4501a-b
Kardestuncer, H. 4271
Karelin, O. A. 2982
Karelin, V. P. 5050
Kareńska, Zofia 10911
Karetko, N. P. 9248
Kargapolov, M. I. *See* 9957
Karimbaev, T. D. ★14536
Karivaratharajan, P. 7317a-b
Karl, B. *See* Carl, B.
Karlin, Samuel 4718, 4719, 14810. *See also* ★2238
Karlsson, Johan 3237
Karma, O. O. 4091, 9098
Karmeshu 6615
Karni, Edi 9613
Karoblis, A. 11454, 11455
Karoubi, Max 1263, 11309, 12964
Karp, R. M. 12224
Karpelevič, F. I. 1295
Karpenko, L. D. 14803
Karpenko, L. M. 6532
Karpf, Armin D. 6730, 6731
Karpilovskiĭ, G. I. 10389
Karpman, G. 4373
Karpman, V. I. ★9311
Karr, Alan F. 6335
Karrass, Abraham ★10423
Kartašev, Ju. V. *See* Kartašov, Ju. V.
Kartaševa, L. V. 875
Kartašov, G. D. 12185
Kartašov, Ju. V. 11692, 14279a-b
Kartašov, L. M. 3453
Kart'e, P. *See* Cartier, P.
Kárteszi, Ferenc 3573, ★11156
Kartsatos, Athanassios G. 684, 5583, 13212
Karwowski, W. 12034
Karzel, Helmut ★13701
Kas, Arnold 10276, 13117
Kas, Péter 9637
Kasahara, Shouro 196, 1143, 3678a-c, 8207, 8208, 11306, 13887, 13888
Kasami, Tadao 7102, 9148
Kasatschkow, W. D. *See* Kazačkov, V. D.
Kasemset, C. 1815
Kashiwara, M. 590, 1319a-b, 1320, 3770, 8747, 8749, 8750, 13113
Kashyap, B. R. K. ★6322
Kašin, B. S. 846
Kas'janjuk, S. A. 806
Kasper, U. 14721
Kasperov, V. N. 5562
Kasprzak, W. 1561
Kassir, Mumtaz K. 4254
Kasteleyn, P. W. 5032
Kastler, D. *See* ★9902
Kašu, A. I. 10307
Kasumov, A. B. 8919
Kštai, I. 5140, 5144, 5145, 10179
Katarzyna, Letewska 5624
Katavolos, A. 5847
Katkauskaitė, A. I. 8887
Katkov, V. M. 9436
Kato, Masahide 594
Kato, Mitsuyoshi 6149
Kato, Tosio 5900, 8041
Kato, Yoshinobu 11088
Kato, Yoshio 704
Kato, Yusuke 1988
Katok, A. B. 509
Katona, Gyula O. H. 9851
Katrahov, V. V. 13322
Katriňák, T. 7343
Kats, A. V. *See* Kac, A. V.
Katsaras, Athanasios K. 907, 3374
Katsurada, Yoshie 1134
Katz, Elyahu 12953, 13913
Katz, J. 6866, 9577, 9599
Katz, Nicholas M. 5120, 12780
Katz, P. L. 6504
Katz, Shmuel 4169
Katzin, Martin 3042, 3046, 4052
Katznelson, Yitzhak ★10976
Kauffman, Louis H. 1126
Kaufman, Leon 12184
Kaufman, R. 518, 3272
Kaufman, R. M. 2589
Kaufman, Robert P. 7880
Kaul, Saroop K. 8563
Kaul, Veena 14326
Kaunzner, Wolfgang ★27, ★9926
Kaup, B. *See* ★2949, ★2950
Kaup, D. J. 1989, 6743
Kaup, Ludger 3408
Kaup, Wilhelm 10690
Kawaguchi, S. 9441
Kawahara, Takuji 9340
Kawahara, Yasuo 3735
Kawahara, Yusaku 310
Kawai, Hajime 6924
Kawai, Sōichi 7472
Kawai, Takahiro 1319a-b, 1320, 3767, 8747, 8749, 8750, 11405, 13113
Kawakubo, Katsuo 1269
Kawamura, Michihiko 5461
Kawanaka, Noriaki 2776
Kawashima, Takeshi 14152
Kay, David C. 5972
Kaya, A. 10345
Kaya, E. 2691
Kaye, M. 9561, 14712
Kazačkov, V. D. 2094
Kazak, V. V. 8533
Kazakov, I. E. ★2303, 4800
Kazakova, G. G. 326
Kazamaki, Norihiko 14089
Kazarjan, M. V. 595
Každan, A. È. 9196
Kažihov, A. V. ★9294
Kazim, M. A. 7662
Kazimirskiĭ, P. S. 12806
Kaz'min, Ju. A. 7778
Keagy, Thomas A. 13365
Keam, R. F. 13174
Keating, Michael E. 279, 7431
Kebukawa, Takeji 9537
Kechris, Alexander S. 7259, 8593
Kedem, Benjamin 4006
Kedem, Zvi M. 9151
Kedem-Kimelfeld, Benjamin *See* Kedem, Benjamin
Keeler, Emmett B. 9729
Keepler, Manuel 11505
Kegel, O. H. 2809
Keiding, Niels 9007, 11542, 14138
Keilson, Julian 6304
Keimel, Klaus 10099
Keis, I. 6603
Kel'bert, M. Ja. 14260
Keldyš, M. V. *See* ★9963
Keller, H. B. 1627
Keller, Joseph B. 10737
Keller, Robert M. 14430
Kelley, Gary D. 11633
Kelley, Judy A. 11633
Kelley, Thomas A. 14268
Kelley, Walter G. 5544
Kellogg, R. B. 4087, 11118. *See also* 9111
Kellum, Kenneth R. 8554
Kelly, David 5064
Kelly, F. P. 3877, 3878
Kelly, Jerry Stewart 2150
Kel'mans, A. K. 7124
Kel'zon, A. A. 13373
Kemer, A. R. 10104
Kemhadze, K. S. 10415
Kemp, Murray C. 12175
Kemp, R. R. D. 3077
Kemper, Gene A. 11822
Kemper, John T. 10630
Kempf, George R. 12799
Kempthorne, O. *See* 3939, 11595
Kemurdžian, A. L. 9199
Kendall, David G. 8904, 11443, 11537, 14132. *See also* 8881
Kendrick, David 14747. *See also* ★6896
Kenmochi, Nobuyuki 10856
Kennebrock, W. 2072
Kennedy, Douglas P. 8846
Kennedy, Peter E. 14752
Kennedy, Robert E. 2824
Kennison, John F. 2758
Kent, D. C. *See* ★6055
Kent, J. G. 11841
Kent, John *See* 11536, 11537
Kenyon, Douglas E. 1824
Kenyon, Hewitt 13014
Kepka, T. 2710, 2711, 10466
Kerawala, S. M. 12614
Kerber, Adalbert 7600
Kerby, W. 4984
Kerekeša, P. V. 2982
Kerimov, A. K. 2228, 6973
Kerimov, G. A. 12009
Kerlick, G. D. 2096
Kerlin, J. E. 5746
Kerman, A. K. 14646
Kern, K. 1872
Kerner, Edward H. 4522
Kerner, Otto 7545
Kerner, Richard 9548
Kerns, David M. 9356
Kerntopf, Pawel 2346
Kerr, Carolyn India 6084
Keršner, R. 13316
Kertész, Andor 12582, 12826
Kervaire, Michel 5325
Kesava Menon, P. 2482, 2680
Keskinen, R. 9227
Kessler, Irving 11837
Kesten, Harry 11525, 14133
Ketonen, Jussi 7260
Keune, Frans 12858
Keviczky, L. 12339
Keyfitz, B. *See* 1640
Khadia, S. S. 10704
Khaleelulla, S. M. 3352, 5778-5781, 8222
Khalil, Z. 14764
Khalili, Siamak 14128
Khan, I. A. 8796
Khan, Irshadullah 9399
Khan, M. Ali 2151
Khang, N. Q. 441
Khanh, Bui Doan 938
Kharatishvili, G. L. *See* Haratišvili, G. L.
Kharchenko, V. F. *See* Harčenko, V. F.
Khare, S. S. 11358
Kharkar, Anil N. 7006
Khatri, C. G. 1479, 5270, 11638
Khatskevich, V. P. *See* Hackevič, V. P.
Kheysin, V. Ye. *See* Heĭsin, V. E.
Khokhlov, R. V. *See* Hohlov, R. V.
Khurana, S. S. 505, 13557
Khuri, N. N. 9402
Kidachi, Hideyuki 12080
Kiefe, Catarina 7245, 10272
Kiefer, J. 8993, 11676. *See also* 20
Kiehl, Reinhardt 13120
Kifer, Ju. I. 7751, 8898
Kiffe, Thomas R. 5769
Kiguradze, I. T. 5529
Kijowski, Jerzy 2023
Kikkawa, Michihiko 442
Kikkawa, Sho 7071, 9795
Kikuchi, Fumio 14538
Kikuchi, Norio 674, 7929
Kilbas, A. A. 5910
Kil'berg, E. M. 5716
Kilgour, D. M. 4689
Killeen, Timothy J. 3953
Killgrove, R. B. 2588, 12545

Killingbeck, J. ★11881
Kil'p, H. 1108
Kim, Choo Whan 13622
Kim, Chul E. 1716, 1722, 2177
Kim, Chung Sŏn 9136
Kim, Hae Yŏng 8520
Kim, Jongsik 13514
Kim, K. H. 1703
Kim, Ki Woong 11370
Kim, L. V. 1349, 6241a-b
Kim, P. J. 14227
Kim, Sun Ho 8031
Kim, V. S. 13821
Kim, W. J. 13213
Kimberling, Clark 10130
Kimchi, E. 13382
Kime, Charles R. *See* ★1693
Kimel'fel'd, B. N. 611
Kimura, Hiroshi 2770
Kimura, Masayuki 4866
Kimura, Miyoshi 3956
Kimura, Morishige 13995
Kimura, Motoo 9719
Kimura, T. 4543
Kimura, Tosihusa 7797
Kincl, J. 2046
Kinderlehrer, David 3160, 8014
King, A. R. 12110
King, Henry C. 13114
King, J. Th. 6524
King, James C. 6541
King, R. E. 7026
King, R. F. 4083
Kingman, J. F. C. 3865, 8879
Kingsley, R. A. 5004, 12630
Kingston, J. G. 3794, 12026
Kinjo, Yoshiyuki 6204
Kinokuniya, Yoshio 5414, 5415
Kinoshita, Yasuyoshi 12388
Kinosita, Kiyosi 3738
Kiotina, G. V. 1105
Kioustelidis, John B. 10932
Kiprijanov, I. A. 13322
Kipšidze, Z. Š. 12358
Kirakosjan, R. M. 9268
Kirchgraber, U. 13229. *See also* 7157, ★14484, ★14485
Kirchheimer, Franz 5123
Kireev, V. I. 4329
Kireĭtov, V. R. 11875
Kiričenko, M. F. 649, 1751, 7990
Kiričenko, V. F. 13812
Kiriĭ, K. A. 3094
Kirillov, A. A. ★447, 6862. *See also* ★446
Kirin, V. G. 2449
Kirjackis, E. 5452, 5453, 10907
Kirjuhin, L. V. 14503
Kirk, R. B. 13013
Kirkinskiĭ, A. S. 2813
Kirkman, Ellen E. 10324
Kirkorov, N. I. 12362
Kirschenmann, Peter 14027
Kirschner, H.-P. 14240
Kiršteĭn, B. H. 12651
Kirstein, B. M. 14130
Kis, O. 3266, 5711, 5713a-b
Kišakevič, Ju. L. 5654
Kischka, P. 4681
Kiselev, A. I. 5627
Kiselev, A. P. 4347
Kiselev, O. M. 14565
Kishi, Kazuo 8295
Kishimoto, A. 2049
Kishimoto, Kazuo 10336
Kisielewicz, Michał 3120a-b
Kisilevs'kiĭ, G. È. 8328
Kisilevsky, H. 5188
Kiss, L. N. *See* 2138
Kistner, A. 5571
Kitada, Hitoshi 10896
Kitahara, K. 6829, 14690
Kitahashi, Tadahiro 7147
Kitamura, Yuichi 657
Kitano, Koh-ichi 3483
Kitaoka, Yoshiyuki 5117, 7375, 12647
Kittappa, R. 4317
Kitto, W. 5708
Kiya, Masaru 11966
Kiyono, Takeshi 5761
Kjaer, K. H. 6815
Kjurkčiev, Nikolaĭ 10933
Klamka, Jerzy 12264
Klamkin, M. S. 2491, 2892, 3908, 8427, 10915
Klapka, Jiří *See* 36
Klar, Rainer ★9159
Klarner, David A. 2688
Klass, M. J. 3822
Klass, Michael J. 14086
Klassen, V. P. 12911
Klatte, R. 14408
Klauder, J. R. 9452, 9453, 14560
von Klaudy, St. 14296
Klaus, M. 9533, 14678
Klebanov, L. B. 3906, 8937, 14208, 14209
Kleiman, H. 5110
Kleiman, Steven L. 12765
Kleĭmenov, A. F. 14799
Klein, Abel 14637
Klein, Ruben 3828
Klein, W. 9503
Kleindorfer, P. R. 2173, 2174
Kleĭner, G. B. 5215
Kleinerman, Jerome 14806
Kleinfeld, Erwin 12847
Kleinfeld, Margaret H. 2740, 12841
Kleinman, David L. 9789, 9823. *See also* 12304
Kleinman, R. E. 4317
Kleinmichel, Helmut 11770, 14367
Kleinschmidt, P. 3587, 13724
Kleitman, Daniel J. 2483, 4995, 5024, 7314, 11176. *See also* ★2470
Kleiza, J. 5597, 10640
Klemm, Michael 382
Klemm, Richard A. 4806
Klenina, L. I. 730
Kleščov, V. V. 8983
Klette, Reinhard 2435
Klevačev, V. I. 7594
Kligienė, Nerutė 9012a
Klimentov, S. B. 8531, 11249
Klimkiewicz, Wojciech 12433
Klimkin, V. M. 506
Klimko, Eugene M. 510
Klimov, N. I. 2607
Klimov, V. S. 90, 1289, 8264, 11114
Klimowicz, A. A. 2810
Kline, George L. 7186
Klingenberg, Wilhelm ★3598, 6195, 8716
Klinger, Kenneth 2784
Klingman, Darwin 4674, 4683, 6502, 12199
Klipker, I. A. 5040
Kljačko, A. A. 7623
Ključancev, M. I. 13181
Kljuĭnik, I. F. 13233
Kloeden, P. E. 12238
Klokov, V. I. 11888
Klokovs, J. 13187
Klonecki, W. 6983
Klotz, Jerome 6417
Klouda, Josef 12930
Kluge, W. 3858
de Kluyver, Cornelis 8981
Kmety, François *See* ★2662
Knap, K. 13711
Knapecz, G. *See* 8059
Knapp, A. W. 7704, 10499
Knapp, C. H. 14828
Knapp, Karlheinz 6135
Knapp, Wolfgang 12868
Knauff, W. 906
Knebusch, Manfred 230, 7440, 10218
Knežević, Julka 654, 655
Knight, G. H. 3568
Knirk, Dwayne L. 1681
Knjazeva, V. F. 2184
Knobe, Bruce 11859
Knobe, Kathleen 11859
Knoke, James D. 6422
Knoop, Hans-Bernd 3259, 5687, 9041, 10955
Knopfmacher, John ★7404, 12684
Knopov, P. S. 1506, 12309, 14080, 14283
Knopp, Paul J. 10301
Knops, R. J. 6624, ★9249
Knorr, K. *See* 9915
Knowles, G. 1045
Knowles, Ian 13194
Knus, M. A. 320, ★5209
Knuth, Donald E. 5102, 11839
Knuts, Lars-Runar 9662
Kobayashi, Kazuaki 11337
Kobayashi, Masanori 1880
Kobayashi, Shoshichi 3032, 7862. *See also* 17, 18
Kobayashi, Tadashi 2969, 10600
Kobel'kov, G. M. 14504
Koblitz, Neal 2658
Kobrin, A. I. 14481
Kobrinskiĭ, A. A. 4735
Kobrinskiĭ, A. E. 4735
Kobyšev, A. A. *See* ★2378
Koç, Cemal 2738
Kočarli, A. F. 3389
Kocela, Edward 8543
Kočergin, A. V. 3761
Kočetkov, E. S. 4611
Koch, Giorgio 2278
Koch, Richard 8458
Kochenberger, G. A. 4664
Kochendörffer, R. ★4879
Kocher, Carl A. 9467
Kochetkov, E. S. *See* Kočetkov, E. S.
Kochhar, R. K. 4515, 4516
Kočin, N. E. *See* 4899
Kočubeĭ, A. N. 11108
Kodama, Masanori 2170, 4615
Kodama, Masao 1645
Kodama, Yuji 9415, 12036, 14611
Kodama, Yukihiro 3650, 6133
Kodandapani, K. L. 14885
Kodratoff, Y. 5033
Koecher, Max 12848
Koeda, Shozo 1555
Koehler, Anne 7548
Koehler, Gary J. ★4632
Koenderink, J. J. 7005
Koerffy, A. 9616
Kogalovskiĭ, S. R. 7240
Kogan, D. 5717
Kogan, S. M. *See* ★2370
Kogelnik, H. 11983
Kogiso, Motokazu 14595
Kogonija, P. G. 12672
Koh, E. L. 10986
Koh, K. M. 7355, 10093, 12569, 12583
Koh, Kwangil 12842
Koh, S. L. 6659
Kohanskiĭ, L. È. 12343
Kohavi, Z. 7125
Kohlberg, Elon 10540
Kohlenberger, Helmut *See* ★7188
Köhler, Egmont 5005
Köhler, Jürgen 6505
Köhler, M. 4149
Kohler, Robert H. 1297
Kohler, Werner 1382, 1893
Kohler-Jobin, Marie-Thérèse 9269
Kohn, J. J. 3005
Kohn, M. J. 3288, 13460
Köhnen, Walter 5399
Kohov, V. A. 12565
Koĭfman, L. A. 5216
Koike, Masao 2595, 7384
Koĭt, M. 1723
Koiter, W. T. 14505
Koivo, H. N. 12260, 12261
Kojima, Masaaki 7142
Kojima, Masakazu 4669
Kokilašvili, V. M. 3513
Kokoris, Louis A. 7560
Kokoszkiewicz, A. 1650
Kokotović, Petar V. 5539, 8410, 13230
Kokoulin, V. I. 1566
Koláf, Ivan 3740
Kolbe, W. 5689
Kölbig, K. S. 3043
Kol'činskiĭ, V. A. 10774 10774
Kolde, R. 1106
Kolen, A. W. J. 2511
Kolenička, Jan 9866
Kolesov, A. K. 4560
Kolesov, Ju. S. 10764, 13256
Kolesov, V. V. 9324
Kolev, A. 12194
Kolev, L. I. 12296
Kolev, L. V. 6961
Koljada, Ju. V. 4084
Koller, S. 14245
Köllerström, J. 14153
Kollmann, Wolfgang 1865
Kolmanovskiĭ, V. B. 2312, 3552, 4797, 7084
Kolmogorov, A. N. 29. *See also* 7161
Kolodiĭ, Ĭ. M. 698
Kolodjažnyĭ, B. G. 1894
Kolodner, Ignace I. 13566
Kołodziej, Reinhold 4935a-b
Kolokol'ceva, I. I. 6001
Kolomý, Josef 5928
Kolosov, B. V. 4295
Kolp, Otto 4832, 9867
Komar, Arthur 14651
Komáromi, É. 12202
Komarov, I. Ju. 1203
Komarov, Ju. M. 4837
Komatsu, Hikosaburo 5596
Komatsu, Keiichi 12718
Komatsu, Kenzô 10193
Komatsuzaki, Toshio 5940
Komekov, B. 1344
Komin, R. 6009
Komissarčik, V. F. 11700
Komissarčuk, A. A. 7115
Komjak, I. I. 5755
Komkov, V. 658, 3086, 6526, 13305
Komlenko, Ju. V. 7844
Komori, Yuichi 10103
Komrakov, B. P. 1123, 3620
Komusiewicz, Johann 11803
Kon, Masahiro 1141, 11245, 13794, ★13799, 13817, 13818
Konarzewska-Gubała, Ewa 9901
Konaĭenko, S. I. ★14517
Kondo, Kazuo 6649, 6650
Kondô, Motokiti 12496
Kondraševa, I. L. ★3131
Kondrat'ev, V. A. 10827. *See also* 7161
Konetschny, W. 6723
Konev, V. V. 9643
Kong, T. J. 1154
König, D. 11560
König, E. 12010
Konishi, Yoshio 3138
Konjuh, V. S. 12893
Konjus, A. A. *See* 12459
Konno, Kimiaki 6806, 9328
Kono, Akira 3731, 3732, 6142
Kono, Michio 9750
Kononenko, A. M. 5107
Kononenko, G. N. ★14579
Konorski, Andrzej 9312
Konosevič, B. Ĭ. 1752
Konovalenko, V. V. 8983
Konowalow, Daniel D. 4046
Konšina, E. V. 2997
Konstantinov, M. M. 3071, 5579, 5584, 5655, 13494
Kontorova, T. A. *See* ★2403
Kontorovič, V. M. 14655
Kontovt, V. I. *See* ★3597
Kool, A. I. M. 9026a-b
Koonin, S. E. 14646
Koop, J. C. *See* 6344, 11600
Kopanev, S. A. 536
Kopeč, J. 2933
Köpf, Ursula 10657
Kopiecki, Ryszard 86
Koplatadze, R. G. 685
Koplowitz, J. 4769
Kopociński, B. 8800, 11520, 11543, 11561
Koppe, Hans 12903
Koppel, A. 4511
Kopylov, A. P. 13714
Kopystyra, N. P. 9236
Korányi, Adam 10693, 13154
Korec, Ivan 2443
Koren, I. 7125
Koren, Michael 169
Korenblum, Boris 13081
Korenĭvs'kiĭ, D. G. 5585
Kõrezlioğlu, Hayri 8318
Korkina, M. P. 2078
Korman, S. 6948

Korn, Henry 10516
Korn, I. 9796
Kornai, János ★12176
Korneev, V. G. 1791
Korniičuk, M. P. 13413
Korobeĭnik, Ju. F. 1005, 2897, 7923
Korobenok, E. V. 4537
Korobov, N. M. 12619
Koroljuk, V. S. ★8913. *See also* ★9919, ★9920
Korotkov, V. B. 3390
Korous, Josef *See* 9948
Korovkin, P. P. 10522, 10523
Korpaev, K. 5873
Korsakova, L. G. 11186
Koršunov, A. D. 10064
Koršunov, V. A. 14666
de Korvin, A. 3380
Korwar, Ramesh M. 1502
Korzeniowski, A. 14290
Korzjuk, V. I. 710
Koĭelev, A. I. 725
Koĭeleva, O. N. 11823
Koĭevnikova, I. G. 8577, 8578
Koshiba, Yōichi 10686
Koshiba, Zen'ichirō 1025
Kosiński, P. 6717
Kosiński, W. 6702
Kosjuk, S. D. 6462
Kosniowski, Czes 1202, 13943
Kossak, O. M. 10754
Kostant, Bertram 2888, 12982
Kostarčuk, Ju. V. 3152
Kösters, H.-W. 1540, 1628
Kostić, Dragutin J. 5411
Kostin, V. A. 10529
Kostjučenko, A. G. 3463
Kostjukovskiĭ, Ju. M.-L. 12262
Kostrikin, A. I. 30. *See also* 6
Kostrov, B. V. 14515
Kostyrko, V. S. 9137
Kostyukovskii, Yu. M.-L. *See* Kostjukovskiĭ, Ju. M.-L.
Koszul, Jean-Louis 13928
Kotake, Takeshi 14008
Kotecký, R. 9430
Kotenko, N. V. 1793
Kotiĭ, O. A. 12458
Kotlarski, I. *See* 8059
Kotljar, V. D. 11002
Kotov, S. V. 5125
Kotz, Samuel ★6378
Kotzig, Anton 7318
Kotzurek, M. 14154
Koubek, Vaclav 5313
Kouchnirenko, A. G. *See* Kušnirenko, A. G.
Koul, H. L. 1470
Kouri, D. J. 4406, 4407, 9454
Koutroufiotis, Dimitri 13802
Koutský, Zdeněk *See* 9940
Kouvaritakis, B. 2271, 2272, 9762
Kouvatsos, D. D. 7014
Kovács, Á. *See* 2138
Kovács, L. G. 12927
Koval', L. N. 9416
Koval'čik, F. B. 5190
Koval'čik, Ĭ. M. 7737
Kovalenko, A. D. ★12463
Kovalenko, S. P. 3453, 5526
Kovalenko, V. P. ★4359
Koval'v, A. M. 9206
Kovalev, I. S. *See* ★7092
Kovalevskiĭ, V. A. *See* ★9919, ★9920
Kovalin, Ja. V. 12376
Koval'ov, V. F. 10841
Koval'skiĭ, I. P. 7990
Kover, T. M. *See* Cover, T. M.
Kovner, J. L. 3915
Kovrigin, A. B. ★3932
Kowalczyk, Bohdan 4237
Kowalski, Michał 10222
Kox, Anne Jacob 11972
Koyama, Toshiko 2838
Koyame, Kenji 4654
Kozačenko, Ju. V. 1358, 1363, 6252, 6253
Kozák, Miroslav 12605
Kozak, P. P. 629
Kozeev, V. A. 7072
Kozek, A. 14210
Koževnikov, A. N. 10892
Kozeyev, V. A. *See* Kozeev, V. A.
Koziara, Jan 11726
Kozielski, Stanisław 7030
Kozlov, E. S. 9117
Kozlov, O. K. 3885
Kozlov, V. Ja. 32
Kozlov, V. V. 11889
Kozmanova, A. A. 569
Kozmidiadi, V. A. *See* ★44
Kozyrev, V. P. 10074
Kra, Irwin 13140
Krabbe, Gregers 13491
Krabs, W. 6953
Kracklauer, Aloysius F. 3756
Kraft, Hanspeter 367
Krahnov, A. D. 8757
Kraines, David 11334
Krall, H. L. 3263
Kramer, D. 4439, 4440
Kramer, Florica 170
Kramer, G. L. 13623
Kramer, Leslie C. 12331
Kramer, Otto-Uwe 10406
Kramli, A. B. 6202
Krámli, András 11477, 14023, 14024
Kramosil, Ivan 9940
Kranenburg, C. 11974
Krantz, David H. 4726
Kranyš, Miroslav 9539
Kranz, Przemysław 12584
Krapčev, V. B. 12045a-b
Krapež, A. 7621
Krasičkov-Ternovskiĭ, I. F. 10622-10624
Krasinkiewicz, J. 6102, 8560
Krasner, Marc 12949
Krasnits'kiĭ, S. M. 8828
Krasnov, M. L. 5627
Krasnov, V. A. 712, 10689
Krasnyĭ, L. G. 11478
Krasovskiĭ, A. A. 5941
Krasovskiĭ, Ju. P. 14573
Krasovskii, N. N. *See* 6
Krass, I. A. 14753
Krasulina, T. P. 14270
Kratko, M. I. *See* ★9919, ★9920
Kratochvíl, J. 14506
Kraus, K. 14636
Krause, J. 6818, 6819, 14722
Krauss, Peter 4969, 10105
Krausser, D. 12003
Krauth, Joachim 3957, 14228, 14302
Kravčenko, V. G. 13496
Kravcov, A. V. 14047
Kravcov, M. K. 1087
Kravčuk, M. I. 2
Krawczyk, Jerzy 1073, 14723
Krawczyk, R. 6493
Krawietz, A. 14507
Krbec, Miroslav 5619
Krbec, Pavel 659
Krečet, V. G. 12111
Kreck, M. 11361
Kreczmar, Antoni 12509
Krée, Paul 5828, 11412, 11475, 13564
Kreimer, H. F. 12740
Kreĭn, M. G. 11103
Kreĭn, S. G. 3741
Kreisel, Eckhard 2115, 4519
Kreisel, G. 73, 12493
Kreisinger, Vladimír 11991
Kreiss, Heinz-Otto 4115
Kreith, Kurt 3069, 10751, 13214
Krementulo, Ju. V. 9801
Kremer, M. 9369
Kremer, S. 12010
Krengel, Ulrich 11469
Kreweras, Germain 10032, 10089
Krewski, Daniel 3959
Kreyszig, Erwin 14335
Krieger, M. 2340
Krieger, Michael M. 11176
Krieger, Wolfgang 5439, 10562
Krgović, Dragica N. ★2846
Kričever, I. M. 1262, 1298a-b
Krickaja, S. S. 3190
Krieger, Hans-Jürgen ★3491
Krieger, Wolfgang 2915, 3430
Krier, Nicholas 5967
Krier, Norbert ★1580
Kriete, T. L., III 555
Krikorian, Nishan 13966
Krineckiĭ, I. I. *See* ★9827
Krips, H. 1965a-b, 11999
Kriščenko, A. P. 11413
Krishnaiah, P. R. ★11653
Krishna Kumar, V. 637
Krishnamurthy, E. V. 4212, 11748
Krishnamurthy, P. R. 5528
Krishna Murty, M. 12592
Krishnamurty, T. S. G. 12072
Krishnan, K. R. 4769, 4838
Krishnan, Viakalathur S. 5073
Kristensen, B. B. 6572
Kristeva-Varbanova, M. 14220
Kritz, A. H. 6809
Kritzinger, P. S. 9145
Krivcova, M. N. 5525
Krivoručko, A. I. 6063, 8547
Krivošein, L. E. 8199, 8200, 11011
Krjačko, Ĕ. S. 2015
Krjučkov, N. I. 444
Krjukov, B. I. 5524
Krjukov, V. I. 4708
Kröger, Henner 2561
Kroh, Helmut 993
Królikowska, Krystyna 11634
Krommes, John A. 4296
Kron, Hans H. 9131
Kronberg, A. A. 1535
Kronsjö, T. O. M. 2142
Kronstadt, Eric P. 557, 5501
Kroonenberg, Nelly 1230
Krop, L. E. 12897
Krotov, V. F. ★5931
Krotov, V. G. 5726
Krowicki, Stanisław 11693b
Kr"steva, Marija 12191
Krüger, J. G. 4445, 6744, 12053
Krugljak, Ju. O. 2015
Krugljakov, L. Z. 10256. *See also* ★1094
Kruglov, V. Ĕ. 13091
Kruglov, V. M. 14050
Krumbholz, W. 14056, 14057
Krupin, V. G. 11562
Krupka, Demeter 11390, 13985
Kruse, Klaus-Dieter 11458
Kruškal', S. L. 10597
Krylov, N. V. 8033, 13324, 14100
Krylov, V. I. ★6444
Krylova, T. V. 5770
Krysanov, A. I. 12408
Kryscio, Richard J. 6993
Kryukov, V. I. *See* Krjukov, V. I.
Krzyż, Jan G. 10587
Kshirsagar, A. M. 14241
Ktorides, C. N. 12130
Ku, Mei Chin 3726
Kubiaczyk, Ireneusz 1196
Kubo, Fujio 10363
Kubo, Fumio 11088
Kubo, Yoshiko 13813
Kubota, Kenneth K. 12725
Kucenko, Ĕ. N. 8578
Kucenko, L. V. 8370
Kucera, Jan 5826
Kučera, Vladimír 2304
Kuchař, Karel 4535
Kucharczyk, P. *See* ★14543
Kucharski, Z. 3687
Kucharzewski, M. *See* 8059
Küchler, Uwe 6286
Kuchowicz, B. 2098, 4502
Kucia, Anna 1167
Kuck, David J. 4181
Kučkarov, Ja. H. 5434, 13626
Kučko, L. P. 6186
Kučment, P. A. 467, 3741, 6124
Kuczma, Marek 8448, 10910, 13177. *See* 8059
Kudin, G. I. 649
Kudin, V. F. 7037
Kudina, L. S. 11448
Kudō, Hirokichi 14175
Kudračenko, L. A. 7643
Kudrjavcev, L. D. 8265
Kuelbs, J. 8782, 8783
Kufarev, P. P. 4318, 5457
Kuhfittig, Peter K. F. 13490, 13889
Kuhn, G. 1808
Kühn, Oda 370
Kühne, R. 3492
Kühnel, Wolfgang 13795
Kuhnert, F. 14359. *See* ★11882
Kuhta, K. Ja. 6608
Kuhta, T. K. 3879
Kuhtenko, D. I. *See* ★9919, ★9920
Kuich, Werner 1724
Kuiper, Hendrik J. 726
Kuiper, Nicolaas H. 1282, 1301, 6024
Kuipers, L. 2612, 5131, ★7415, 12680, 12697
Kuk, Ju. V. 1446, 9013
Kuklewski, Julian 1114, 13711
Kuks, L. M. 640
Kulagina, M. F. 2966
Kulakova, V. G. 14029
Kul'čickiĭ, V. L. 13318
Kulešov, A. A. 1026, 11000
Kulešov, S. P. 9455a-b
Kulev, N. V. 8425
Kulik, V. L. 5548, 5549
Kulik, V. T. 12606
Kulikov, Ĕ. L. 6517
Kulikovskiĭ, A. G. 9313. *See also* 6
Kulinič, G. L. 3850, 6294, 14125
Kulisch, Ulrich ★14346
Kulkarni, R. S. 6025
Kuller, Robert G. 11059
Kullman, David *See* 12422
Kulmatov, D. G. 3081
Kumamoto, Hiromitsu 9777
Kumano-go, Hitoshi 1025
Kumar, A. 3787, 8774, 13766
Kumar, Ashok 13366
Kumar, Awdhesh 1119, 3611
Kummer, Martin 7965, 11890
Kumpera, Antonio *See* 8457
Kun, L. A. 3541
Kunakova, I. V. 11169
Kuncevič, V. M. *See* ★9919, ★9920
Kundert, Esayas George 5210a-b
Kundu, Sukhamay 2504, 5025
Kung, C. F. 4767, 8405
Kung, H. T. 1583, 6553, 9152
Kunicyn, A. L. 9207
Kunin, I. A. ★14508
Kunita, H. *See* 18
Künneth, Hermann *See* 7177
Kunte, Sudhakar 14267
Kunz, Ernst *See* ★304
Kunz, H. 14679
Kunze, Ray A. 3305
Künzi, Hans Paul *See* ★4604, ★6892, ★6893
Künzle, H. P. 9551, 9578
Kuo, Hui Hsiung 3846, 5424
Kuo, Reed 6654
K'uo, Ts'ang Hai 11038
Kuo, Wang Yüeh Ngo 5277, 7501
Kupczyński, M. 9431
Kuperberg, W. 8587
Kupka, I. A. K. 738
Kupper, Lawrence L. 3990
Küpper, Tassilo 4116
Kuppuswamy Rao, K. 8441
Kupradze, V. D. ★9233
Kuprienko, V. D. 5719
Kuran, Ü. 7815
Kuranishi, Masatake 8738
Kurašov, V. N. 1979
Kuratowski, K. 1161, 3651. *See also* ★2405-★2407
Kurbanov, N. 3580
Kurčatov, V. A. 1591
Kurčenko, O. O. 1365
Kurčenko, T. S. ★1586
Kurcyusz, Stanislaw 12209, 12214, 13680
Kureĭčik, V. M. 125
Kurepa, R. Đuro 12529
Kurepa, Đuro *See* 8457
Kurepa, S. *See* ★8059
Kureychik, V. M. *See* Kureĭčik, V. M.

Kuribayashi, Akikazu 5243, 13141
Kuricin, Ju. G. 14273
Kuriyan, Mary 9502
Kurmītis, A. ★2363
Kuroda, S. T. 757, 5645, 13340
Kurpa, L. V. ★4256
Kurpel', M. S. ★1586, 5625, 7178
Kurshan, R. P. 2320
Kurşunoğlu, Behram 12112
Kurth, Rudolf 10717
Kurtz, L. 14566
Kurtz, Thomas G. 13245, 13628
Kurz, Mordecai 2152, 6902
Kuržanskiĭ, A. B. 4700
Kusakin, I. A. 4092
Kusano, Takaŝi 3129, 5586, 7955, 10804, 13260, 13275, 13276
Kushimoto, Shigeru 2201
Kushner, Harold J. 9818, 9822
Kušnirenko, A. G. 7454, 10263, 13126. *See also* 11400
Kuß, U. 8964
Kustaanheimo, Paul E. 2099
Kutateladze, S. S. 879, 1085, 3357, 8225, 12161
Kutirkov, G. A. 55
Kutmanov, Z. 11162
Kutmatov, Š. 10785, 10786
Kutoviĭ, V. O. 13633
Kuwahara, Michiyoshi 4654, 14839, 14843
Kuyk, W. 12730
Kuzenko, V. F. 6570
Kuzičev, A. S. 12489
Kuzmanov, L. N. 7926
Kuz'menko, V. O. 10057, 10058
Kuz'menkov, L. S. 4538
Kuzmičev, V. E. 1958, 1959
Kuz'min, A. G. 13330, 13331
Kuz'min, V. B. *See* ★5057
Kuz'minyh, A. V. 11250, 13714
Kuznecov, Ju. A. 4479, 4498, 14667
Kuznecov, M. I. 10356
Kuznecov, N. N. 4126
Kuznecov, V. E. 9755
Kuznecova, N. G. 13803
Kuznecova, V. A. 327
Kuznetsov, V. E. *See* Kuznecov, V. E.
Kuzovkov, N. T. *See* ★4730
Kvedaras, B. 7987
Kvitašvili, A. A. ★9189
Kwak, Jin Ho 3694
Kwakernaak, Huibert 14860
Kwapień, S. 8239. *See also* 8152
Kwapisz, M. 10787
Kwiatkowski, D. J. 4995
Kwiecień, Sabina 5660
Kwon, W. H. 7033
Kwon, Young K. 2998, 13780a-b
Kwong, Ken C. K. 11747
Kwun, Kyung Whan 6150
Kyan, Seiki 6918
Kydland, Finn 9705
Kyncl, Jan 14668
Kyriakopoulos, E. 6714

L

Labelle, G. 2930
Labisch, F. 6645
Labuda, Iwo 5819
Labunec, V. G. 4841
Lacaze, Jacques 11385
Lacher, R. C. 6073
Lachlan, A. H. 83
Lacomba Zamora, Ernest A. 591
Lacomblez, Chantal 8350
Lacoss, R. T. 11788
Ladas, G. 3121
Ladde, G. S. 2291, 13226
Ladhawala, N. R. 5727
Ladner, Richard 6554, 7222, 11847
Lady, E. L. 5214, 5370
Ladyženskaja, O. A. 4297, 5617, 13347. *See also* ★10810
Laetsch, Theodore 5620, 13650
Laffey, T. J. 2768, 2799
Lafon, J. P. ★10243
Lagnese, John 7988, 8371
Lah, P. 7149
Lahr, Charles D. 3300
Lahtinen, Aatos 7772, 7773
Lai, Tze Leung 14261
Laidlaw, W. G. 6660
Laine, Ilpo 3003
Lainiotis, Demetrios G. 9797-9800. *See also* 2258
Lair, Christian 10375
Lajos, Sándor 2846, 10452
Lakatos, Piroska 10427
Lake, John 93, 7319
Lakin, W. D. 4261
Lakoff, George 9977
Lakshmikantham, V. 3121, 5563, 10723, 13657
Lal, Harbans 7674
Lal, Krishna Bihari 4512, 9552
Laliašvili, O. È. 4239
Lalli, B. S. 5545, 13234
Laloux, B. 11119
Lam, Binh 13414
Lam, Clement W. H. 10182
Lam, K. 8958
Lam, Kah Seng 5070
Lam, Ling Fai 461, 11080
Lam, Ping Fun 8597
Lam, T. Y. 5114, 5115
Lam, Y. F. 12377
Lam, Yuk-Ming P. 12037
Lamagna, Edmund A. 4842
Lambek, J. 2750, ★7514
Lambermont, J. 9367
Lambert, Howard 8636, 8637
Lambert, J. D. 1646, 6529, ★11789, 14379
Lambrinos, P. Th. 11279
Lamèche, Khira 7525
Lamoureux, Claude 6161, 11351
Lamport, Leslie 11834
Lamps, Dale *See* 4015
Lancaster, H. O. 3888, 9941, 11579-11583, 11652
Lance, E. Christopher 8306, 8307
Lance, Michel 11996
Landa, P. S. 4499, 12284
Landau, H. J. 11988
Landau, I. D. 2268
Landau, Lev D. ★4218, ★4503
Lander, Les 11376
Landers, D. 14051
Landesman, E. M. 8403
Landis, E. M. 713. *See also* 7161
Landman, Uzi 14687
Lando, Ju. K. 7942
Landsberg, M. 3359
Landsburg, Steven *See* ★7257
Landucci, Mario 5504
Landweber, Lawrence H. 6539, 9135
Landweber, Peter S. 11311
Lane, David A. 8847
Lang, Heinrich 276, 7428
Lang, Serge 2599, ★7483
Lang, Tomás 9869
Langan, Thomas J. 10877
Lange, H. 14547
Lange, O. 14409
Langebartel, R. G. 2127
Langenhop, C. E. 5947
Langer, H. 11103
Langhaar, H. L. 9234
Langlands, Robert P. ★7387
Langmaack, H. ★14415
Langmann, Klaus 13133, 13134
Lannes, J. 231, ★8676
Lanski, Charles 352, 353
Lanteri, Antonio 6174
Lantos, B. 13681
Lanz, L. 9456
Lapidus, Leon 14832
Lapin, A. V. 11804, 14395
Lapinskas, R. 8801
Lapko, A. A. 8921
Lapkovskiĭ, V. K. 4537
Laporte, Anne Marie 12204
La Porte, Deirdre 12447
La Porte, M. 1581, ★11722
Lapresté, J. T. 952
Laptev, B. L. *See* 4902
Laptev, G. F. 6178
Laričeva, V. V. 4234
Larimore, Michael G. 9808
Larin, S. V. 2822
Larin, V. B. 14836
Larini, Michel 9522
Larionov, E. A. 981
Larkin, F. M. 3260
Larsen, E. W. 2036, 2128, 4466
Larsen, Hugh 7088
Larsen, Leif 12912
Larsen, Max D. ★2629
Larsen, Ronald 8148
LaSalle, J. P. 7966, ★8380
Lascar, B. 3405, 8279
Lascar, Richard 14010
Lascaux, P. 11941
Lascoux, Alain 12762
Lascu, Alex T. 312
Lašhi, A. A. 2743
Lashof, R. 3712
Lasiecka, Irena 5938
Łąski, J. 4873
Lasry, Jean-Michel 3751, 4586
Lassez, J. L. 9834
Lassner, G. 11073. *See also* ★3425
Lassner, W. 10354
Las Vergnas, M. 171, 5018, 7295, 7300, 10061
Lata, Suman 13567
Latham, W. P. 6458
Lathouwers, L. 1960
Latour, François 3720, ★8676
Latter, B. D. H. 2245
Latteux, Michel 9173
Lau, A. Y. W. 12956
Lau, Anthony To Ming 5848
Lau, Ka Sing 3365, 11033
Lau, Y. Y. 13237
Laudiero, Ferdinando 1813
Laue, Hartmut 2788
Laue, R. 396
Laughton, M. A. 14848
Laugwitz, Detlef 1116
Laumon, Gérard 2650
Laura, Patricio A. A. 2937
Laurent, A. G. 1481
Laurent, F. 2260
Laurinčikas, A. 5161, 12700
Lauritzen, Steffen L. 2137. *See also* 6338
Laury-Micoulaut, C. A. 6881
Lausch, Hans 2800, 10453
Lausmaa, T. 2856
Lautala, P. A. J. 6512
Läuter, E. 1499
Läuter, H. 3985, 4008
Lavan, Zalman 1873
Lavenberg, S. S. 2178
Laver, Richard 10019
Lavie, A. M. 9314
Lavine, R. 6769
Lavit, Christine ★2371, 9870
LaVita, James A. 10837
Lavoie, Mario 2732
Lavrent'ev, M. A. *See* ★9235, ★9288, ★9909, ★12464, ★12465
Lavrent'ev, M. M. 731
Lavrik, A. F. 250
Lavrov, I. A. 78
Lavrov, S. S. *See* 6
Lawless, J. F. 14291
Lawrence, Jim 3589
Lawrence, John 2717, 5324
Laws, N. 9364
Lawson, H. Blaine, Jr. 13116, 13130
Lawson, J. Douglas 2345
Lawson, Terry 3721
Lawvere, F. William 7256, ★7257
Lax, Peter D. 758, 1640, 13351, 13617. *See also* 14
Lax, R. F. 13149
Laycock, P. J. 11667
Lazar, A. J. 944, 5905
Lazard, Michel 5251, 5252
Lazarević, Ilija B. 5709
Lazarjan, V. A. 9801, ★14517
Lazer, A. C. 8403
Lazić, Milivoje G. 3213, 3214, 5796
Lbov, G. S. 9030
Leadbetter, M. R. 8855
Leaf, Gary K. 797
Leahey, W. J. 12698
Le Anh Son 14274
Leavitt, W. G. 10314, 12836
Le Barz, P. 5499
Lebedev, V. A. 1380, 11500
Lebedev, V. I. ★4500, 11746
Leblanc, Hugues 2416, 12487a-b
Leblanc, Raymond 8226
Lebon, G. 4365, 6703, 9367
Lebowitz, J. L. 9505
Le Breton, Alain 11140
LeCam, L. 2905, 3896
Lê Châu Hoàn 8378
Leclerc, A. 11661
Lecomte, Pierre-Claude 10101, 12948, 12949
Ledger, Arthur J. 1130, 8528
Ledinegg, E. 1881
Le Din' Zon 13107
Ledwidge, T. J. ★12340
Lee, Arthur C. H. 11503
Lee, Austin F. S. 14205
Lee, Bruce E. 7020
Lee, C. W. 14738
Lee, Che Young *See* ★365
Lee, Cheng-Ming 484
Lee, Chio Hsiao 4785
Lee, Dong Hoon 2874
Lee, Jong Sen 10769
Lee, Kin Chun 782
Lee, Kwang Yun 7006, 14754
Lee, Kyung Bai 3664, 11286
Lee, L. L. 6794
Lee, Lin Nan 2324
Lee, P. A. 4843, 11618
Lee, Peng Yee 2672
Lee, Pjek Hwee 354
Lee, Ronnie 1267, 8684, 10485
Lee, S. G. 5884
Lee, S. J. 1021, 3077
Lee, S. L. 1815, 3232, 8091, 10940
Lee, S. W. 14570
Leeds, Stephen 7232
Leela, S. 5563
Leeman, George B., Jr. 1699
Leepin, P. 9026a-b
Leese, S. J. 5418a-b
deLeeuw, Karel 13468
van Leeuwen, Jan 1725, 9991, 14443
van Leeuwen, L. C. A. 347, 5213
Lefschetz, Solomon 7920
Lefton, Phyllis 10219
Legg, David 8848
Legg, David A. 986
Leggett, Richard W. 5756
Legiša, Peter 10482
Legoupil, J. 4007
Legrand, D. 2702
Lehman, B. 8589
Lehmann, Th. 1792
Lehmer, D. H. 5093, 5268
Lehmer, Emma 5010
Lehn, Jürgen 5419
Lehnigk, Siegfried H. 9512
Lehoczky, John P. 11535
Lehtinen, M. 9227
Leibniz, Gottfried Wilhelm *See* ★7164, ★7165, 7170, 12439
Leibowitz, Elhanan 2108
Leigh, Vivien 12481
Leighton, Frank Thomson 2476
Leighton, Walter 3087
Leinert, Michael 7694, 8151
Leinhardt, Samuel 12252
Leipholz, H. ★1763
Leipholz, H. H. E. 1776, 9239
Leis, R. 11913
Leitch, R. A. 11635
Leiter, Darryl J. 12056
Leiterer, Jürgen 607, 5510, 5511
Leites, D. A. 10362
Leitmann, G. 9783, 12236
Leitzel, James R. C. 2624
Leiva, C. 4072
Leĭzin, M. A. 13554
Lejewski, Czesław 4913
Leko, Marko D. 8499
Lelahi, Kazem 380
Lelek, A. 6066, 8587
Leliakov, I. P. 11897
Lelièvre, Jean 9115
Lelong, Pierre 600, 2601, 7859, 8234
Lelong-Ferrand, Jacqueline 11237
Lemaire, Claude 5349
Lemeire, Frans 14345
Lê-Minh-Triết 4566
Lemire, F. W. 10355
Lemke, C. E. 6949
Lemoine, Austin J. 14150
Lemordant, J. 1656
Lempio, F. 1052, 13684
Lemrabet, Keddour 5605
Lenagan, T. H. 7541
Lenard, M. L. 9661, 14368
Lender, V. B. 12585
Lendi, K. 12046
Leng, S. *See* Lang, Serge
Lê-Ngoc-Lăng 3527
Lenjuk, M. P. 1793, 4363, 4364
Lennox, John C. 2806, 10412
Lenstra, H. W., Jr. 12730
Lenzi, Domenico 6078, 7357
León, Jesús Alberto 4720
León Álvarez, J. 7509
Leonard, Henry S., Jr. 2828
Leonard, I. E. 8230
Leonard, Philip A. 5134, 10115
Leonard, Tom 8965. *See also* 3939
Leone, Fred C. ★11585
Leonenko, M. M. 11430, 6235
Leonhard, Werner ★9778
Leonov, A. I. 4312
Leonte, Alex 825
Leontév, A. F. 2934, 5489, 13044
Lepage, Y. 6371, ★11423
Lepeha, N. P. ★2259, 2261
Lepeltier, Jean-Pierre 1372, 1403
Lepik, Ü. 4277
Lepin, A. Ja. *See* Lepins, A.
Lepina, E. I. 6484
Lépine, D. 3895
Lepingle, Dominique 6266, 8849, 14090
Lepins, A. 6484
Lepistö, Timo 11860
Lepore, Antonio 13499a-b
Lepore, John A. 4275
Lepowsky, James 2744
Leptin, Horst 5841
Le Quang Chu 3455
Leray, J. 10873
Lerche, I. 4356
Lerda, F. 11739, ★12389
Lere, Z. *See* Leray, J.
Lerman, Manuel 2437
Lerner, A. Ja. 9739
Lerner, V. S. ★4736
Leron, Uri 7535
Lesaint, P. 11941
Lescanne, Pierre 6571
Leserer, M. 14296
Lesieur, Léonce 2705

Lesley, F. D. 13088
Leslie, J. R. 14039
Lesniak, Linda 7310, 7311. *See also* ★2471
Leśniewicz, R. 13575
Lesourne, Jacques 4589
Letac, Gérard 1393
Letelier, P. S. 2100, 2101
Lether, F. G. 11742, 14322
Letičevs'kiĭ, O. A. 6542, 9137
Letizia, Angiola 7357
LeTourneux, J. 12044
Letunov, Ju. P. 12408
Leu, Hsi Muh *See* Lü, Ch'i Mu
Leung, Anthony 666
Leung, Kin-Vinh 4139, 8200, 11011, 14314
Leveille, J. P. 2016
Leventhal, Stephen H. 4125
Levi, D. 4377, 14612
Levi, G. 2543
Levi, Howard 5956
Leviatan, Dany 5688, 13383, 13489
Leviatan, Talma 1397
Levich, E. 2067
Levickiĭ, B. E. 544, 2958, 2959
Levičs, E. 12914
Levikov, A. A. 5942
Levikson, Benny 4719, 8101
Levin, A. 10613
Levin, A. A. 9993
Levin, A. Ju. 13638a-b
Levin, A. L. 7795
Levin, A. M. 7254
Levin, B. V. 12701
Levin, E. M. *See* Levičs, E.
Levin, F. S. 4406, 4407, 9454
Levin, Frank 10419
Levin, J. J. 5669, 8185
Levin, L. A. 2325, 4185
Levin, M. I. 2168, 5701, 8107, 8112, 9057
Levin, Mark 5791
Levin, Martin D. 10481
Levin, V. I. 12390
Levin, V. I. 7722, 12537, 13007
Levin, V. L. 11056
Levine, Daniel A. 864
Levine, Howard A. 697, 10781
Levine, Jerome 8652
Levine, Kenneth M. *See* 6434
Levine, L. E. 9315
Levingston, Richard 12870
Levinson, Norman 5135, ★9908
Levitan, B. M. 10885. *See also* 6
Levšin, L. V. ★9942
Lévy, Azriel 4975
Levy, Haim 4575
Levy, Leon S. 1726
Lévy-Bruhl, Jacques 214
Levy-Bruhl, Pierre 8704
Lewandowski, Zdzisław 530, 531, 2973
Lewanowicz, S. 6527
Lewin, J. 2229
Lewin-Ménégaux, Renée 12774
Lewis, David J. H. 9835
Lewis, David K. ★9979, 9980, 9981
Lewis, D. W. 12646
Lewis, J. 7808
Lewis, J. A. 4348
Lewis, J. E. *See* Lewis, Jeff E.
Lewis, J. L. 11479
Lewis, Jeff E. 3388
Lewis, P. A. W. 1371
Lewis, P. M. 12222
Lewis, Paul 13563
Lewis, T. O. 1462. *See also* 11536, 11537, ★14217
Lewis, Toby 11449
Lewontin, R. C. *See* 9718b
Lewowicz, Jorge 1307
Lê Xuân Cận 5550
Leyland, P. 2050
Leysieffer, Frederick W. 14182
Ležnev, V. G. 13352
Li, Ch'ae Pok 9332-9334
Li, Chong Uk 9649, 14882
Li, Hon F. 2179
Li, Hye Lim 9290
Li, Ok Yŏn 733
Li, Shuo Yen R. 14802
Li, Sok Hŭi 9871, 14882
Li, Tien Yien 811, 4087
Li, Ŭi Yŏk 8992
Li, Wen-Hsiung 4711, 12246
Liang, Chao Chu 1241, 1251
Liang, Joseph J. 7423
Lianis, G. 4341
Liardet, Pierre 12725
Liaw, J.-S. 14838
Libbrecht, U. 9923
Liber, A. E. 11212
Libera, R. J. 13057
Libermann, Paulette 8692. *See also* 8457
Libois, Paul 7261
Lichnerowicz, André ★1121, 1287, 1299, 8735, 8763, 12113, 12114, 13994
Lĭcis, N. A. 12434
Lick, Don R. 151, 172, 5051
Lidl, Rudolf 5496
Lieb, Elliott, H. 492, 12054, 14638, 14688
Liebeck, Hans 5358
Lieber, Z. 13671
Lieberman, D. 12790
Lieberman, Uri 4718
Liebig, H. ★9861
Liebscher, Dierck-Ekkehard 2102
Liehl, H. J. 6731
Liemant, Alfred 8784
Lien, Y. Edmund 7126
Liese, R. 11054
Liffic, B. A. 11510
Liffic, E. M. ★4218, ★4503
Ligaud, Jean Pierre 5784
Liggett, Thomas M. 6332
Ligh, Steve 10459, 12838. *See also* 12422
Lightman, Alan P. ★6847
Lightstone, A. H. ★2457
Ligon, Thomas 13996
Ligozat, Gérard ★5121, ★10150
Ligun, A. A. 489, 802, 8089, 8124
Lika, D. K. ★6494
Likeš, J. 11613
Lilley, F. E. M. 2134
Lillo, J. C. 5592
Lilov, L. 4230
Lim, Chong Keang 5070, 7579
Lim, K. P. *See* 23
Lim, Kim Pin 13415
Lim, M. H. 7510, 10304
Lim, Teck Cheong 11120
Lima, Asvald 13538
Liman, F. M. 10416
Lin, An Loh 14275
Lin, Bor Luh 8243
Lin, C. C. 13237
Lin, Chihchih C. 4607
Lin, Chung 13462
Lin, Huei Lung 5218
Lin, J. G. 6980
Lin, James P. 13911
Lin, Kuang Nan 1148
Lin, Miao Ng 8092
Lin, Michael 5869, 5870, 10558, 10563
Lin, T. F. 8861
Lin, T. Y. 6136
Lindblad, G. 1990, 8299
Linde, Werner 953
Lindeman, Arthur J. 797
Linden, H. 10608
Lindenmayer, A. 4707
Lindenstrauss, Joram 3344, 5808, 5809, 8237, 13537. *See also* 19
Linderman, J. P. 9130
Lindgren, Georg ★3829, 14211
Lindgren, William F. 11278
Lindley, D. V. 3939, 9943. *See also* 3944, 11595, 14172
Lindner, Charles C. 443, 2495, 2499, 5006, 12539
Lindner, Rolf 7226
Lindquist, Anders 9802
Lindquist, Norman F. 3584, 3585
Lindsey, J. K. 11674
Lindström, Kauko 9836
Lindström, U. 6867
Lindvall, Torgny 14134
Linet, B. 6854
Ling, William H. 867
Lingappaiah, G. S. 1438, 1460, 8949, 14189
Lingenberg, Rolf 1067, ★8422, ★13702
Linial, Nathan 2524
Linke, Hans-Peter 13319
Lin'kov, Ju. N. 4821
Lin'kova, G. N. 3602
Linkovskiĭ, Z. B. 1623, 1685
Linna, M. 14457
Linnainmaa, Seppo 9070
Linnik, I. Ju. 10958, 11563
Linnik, Ju. V. 6358, 9004. *See also* 6, 3890, 9935, 9936, 9944
van Lint, J. H. 7106, 7109
Linton, F. E. J. 213
Linton, T. D. 9805
Lions, J. L. 5929, 8895. *See also* ★14476
Liotta, Lance A. 14806
Liou, Ming-Lei 4063
Lipatova, F. A. 8483
Lipčinskiĭ, A. G. 13086, 13087
Lipeika, Antanas 11695
Lipiński, J. S. 12995
Lipman, Joseph 5228a, 7455
Lippman, Steven A. 9628
Lipskiĭ, V. B. 4837
Lipsman, Ronald L. 465, 13467
Lipton, Richard J. 4175, 9129, 11844
Liron, N. 6668
Lisica, Ju. T. 8561
Lisjak, V. V. 125
Liskovec, O. A. 11771
Lisovik, L. P. 9160
Lisyak, V. V. *See* Lisjak, V. V.
Litman, Ami 12526
Littell, Ramon C. 8955
Little, Charles H. C. 5043a-b, 12542
Little, John A. 6037, 6166b
Little, Robert D. 6143, 6144
Littman, Walter 696
Litvak, M. L. 14369
Litvakov, B. N. 11688
Litvin, O. M. 5526
Litvinčuk, G. S. 33, 13496
Litvinov, G. L. 10479
Liu, C. S. 12576
Liu, H. 5552, 10763
Liu, Kuang Chi 927
Liu, Mu Chou 311, 8524
Liu, R. S.-Z. 2302
Liu, Ruey Wen 9742
Liu, Sung T'ien 11790
Liu, Tai Ping 5639
Liu, Tsai Sheng 5587, 13253
Liu, Y. A. 14832
Liukkonen, John R. 8163
Liulevicius, Arunas ★6121, 11332
Liverani, Francesco 11060
Liviu, Nicolescu 8495
Livšic, È. S. 10463
Lizorkin, P. I. 8266
Ljan, G. M. 13070
Ljapin, E. S. *See* ★12931
Ljapin, V. M. 13322
Ljaĭko, A. D. 11802, 14395
Ljaĭko, I. I. 5874
Ljaĭko, O. V. 3021
Ljubarskiĭ, Ju. I. 13639
Ljubimov, J. B. *See* 2138
Ljung, Lennart 9803, 12313, 12314
Ljusternik, L. A. ★13660
Llorente, Pascual ★10470, ★10471
Lloyd, E. H. 8876
Lloyd, Justin T. 12929
Lo, Chi Yeung 728
Lo, Timothy P. 13793
Lobaskina, N. V. 8946
Lobo, R. 6804
Lobo Hidalgo, Miguel 736
Lo Cascio, Maria Laura 7771
Locatelli, A. 12280
Locher, F. 14323
Lock, R. C. *See* ★4327
Locker, John 6495
Loday, Jean-Louis ★867
Loeb, H. L. 799, 4066, 4067
Loebl, Richard I. 8300
Loeckx, Jacques *See* ★9164
Loeffel, H. ★12227
Loewy, R. 2698, 2699a-b
Logan, B. F. 3264
Loginov, A. I. *See* 964
Loginov, A. N. 6923
Lohin, V. V. *See* ★1764, ★1766, ★3597
Lohman, Robert H. 5776
Lohoué, N. 8154
Łojasiewicz, S. 585, 8754, 11404, 13109
Lom, R. S. 6340
Lomakin, L. A. 11954
Lombard, F. 14229
Lomkovskaja, M. V. *See* ★44
Lomonosov, V. I. 8319
Londen, Stig-Olof 8192, 13512
Long, Calvin T. 7396
Long, Ngo Van 9629
Long, Paul E. 8553
Longman, I. M. 9050
Longman, Richard W. 7052
Longo, Giuseppe 2335
Longstaff, W. E. 13596
Longuet-Higgins, Michael S. 4298
Longyear, Judith Q. 5012, 7288
Looijenga, Eduard 10661
Lopatinskiĭ, Ja. B. 3508, 11003
Lopez, G. C. 11008
Lopez-Escobar, E. G. K. 67
Lopez de Medrano, Santiago 8653
López Pellicer, Manuel 11273
Lopresti, Philip V. 7087, 7088
Łopuszański, Jan T. 4371, 9457
Lorch, Lee *See* 4901
Lord, Graham *See* 12422
Lord, Harriet 5860
Lorden, Gary 14262
Lorenc, Aivar A. 4865, 12409, 12410
Lorens, J. A. 1576
Lorente, Miguel 7698
Lorentz, G. G. 3218, 10947. *See also* 5673
Lorenz, Martin 12820
Lorenzani, Massimo 10249, 10250
Lorho, B. ★11835
Lorimer, Joseph W. 8435
Lorimer, P. J. 161
Łoś, Jerzy *See* ★9604
Łoś, Maria W. *See* ★9604
Loščinin, V. S. 11884
Losev, V. V. 12391
Losik, M. V. 1245, 8705
Lo Surdo, C. 9361
Lotov, V. I. 1343
Lotze, K.-H. 4439
Louck, J. D. 627
Louden, Kenneth 5283
Loui, Michael C. 1727
Loupias, Michèle 337, 12581
Louter, A. S. 14301
Louveau, Alain 100
Louvish, D. *See* ★2363
Lovász, L. 2514, 5026, 7308, 7320
Love, B. V. 7362
Love, John T. 14830
Loveckiĭ, S. E. 4637
Lovelady, David Lowell 1018, 10752, 10766, 13227, 13246, 13261
Loveland, L. D. 6103
Lovelock, David 2103, 6002, 9579, 12122
Lovely, D. J. 1856
Lovetskii, S. E. *See* Loveckiĭ, S. E.
Lovicar, Vladimír 3122
Lovíšek, Ján 6625
Löwen, Rainer 7691
Lowenstein, J. H. 1991, 4417, 6756
Lowry, John T. 12047
Loxton, J. H. 5129
Loy, R. J. 3423
Loynes, R. *See* 11536, 11537
Lozano, C. 6669
Lozanovskiĭ, G. Ja. 5422, 5792

Lozinskiĭ, S. M. 9935
Ložkin, S. A. 9872
Lü, Ch'i Mu 2706, 7517
Lübbert, Christoph 5996
Lubin, Arthur 971, 3447, 3477, 5872
Luccio, Fabrizio 2505, 6587
Luccioni, Mariá A. Villalonga de 11994
Lucht, Lutz 219, 262, 5097, 9964
de Lucia, Paolo 496
Lucius, M. 9339
Lučka, A. Ju. 1663, 7178
Luckhardt, Horst 12494
Luczak, R. W. 4135
Ludden, Gerald D. 6046, 13773
Ludescher, Helmut 11258
Ludvik, Peter 3297
Ludwig, Donald 6994. *See also* ★12426,
Ludwig, Klaus 26, 10788, 10789
Ludyk, Günter ★2273
Lue, Huei Shyong 3629, 3635
Luenberger, David G. 7004
Lugiato, L. A. 9456
Luh, J. 12838
Luh, Jiang 2734, 12827, 12842
Lui, Ming-Chuan C. 1512
Lukačevič, I. 14724
Lukács, B. 12138
Lukaĭ, V. N. 6880
Luke, Yudell L. 4071, 13401
Lukes, Dahlard L. 8711
Lukeš, Jaroslav 10638
Lukierska, K. 4414
Luks, Eugene M. 2763
Lum, Lewis 11296
Lumer, G. 939, 8056
Lun, E. 6690
Luna, Domingo 11377
Luna, Eduardo 8037
Lunc, G. L. ★2370
Lunina, M. A. 3279, 7765
Lunts, G. *See* Lunc, G. L.
Luong N. Xuan 6489, 9079
Lupaş, Alexandru 5100
Lupaş, L. 10297
Lur'e, L. I. 6626
Lur'e, M. V. 1839
Luripa, A. 14580
Lurje, Pawel 3349
Lüscher, M. 1992
Lusk, Ewing L. 13899
Luss, Hanan 4009
Lustman, Levi 4292
Lusztig, G. 7646, 7653, 12917
Lutwak, Erwin 3591
Lutz, D. S. 10775
Lutzer, D. J. 6088, 13844
Lutz, Dieter 3484
L'vova, S. V. 3034
L'vovskiĭ, M. N. 7865, 13144
Lwin, Thaung 1464, 11599
Lyberg, M. D. 6724
Lyčagin, V. V. 8691
Lyche, Tom 11730
Lynch, Nancy 6554, 7222, 9153
Lyness, J. N. 6466
Lyons, T. *See* 4173
de Lyra, C. B. 8620, ★11308, 11321. *See also* 2396, ★2397
Lysik, B. 1561
Łysko, J. M. 1231
Lyttkens, E. 11717
Lyu, Ch'ung Ho 8520
Lyusternik, L. A. *See* Ljusternik, L. A.

M

Ma, Èrh Chieh 9065
Ma, Tsoy Wo 10977
Máca, F. 1878
Macadre, Alain 12673
Macak, Ĭ. K. 1366, 3830
MacBain, John Alan 3528
MacCamy, R. C. 11004
Macconi, M. 6510
Macdonald, Alan L. 3078, 11051
Macdonald, I. G. 7709, 10509. *See also* 15, 9915
Macdonald, P. D. M. 2246
MacDonald, W. 9468
MacDowell, Samuel Wallace 9417
Macedońska-Nosalska, O. N. 7632
MacFarlane, A. G. J. 2271, 2272, 7023
MacGregor, John F. 7068
Machov, A. *See* Mačov, A.
Macionis, J. 7987
Mack, Gerhard 10500
Macken, Catherine A. 14111
MacKenzie, R. E. 2729
Mackevičius, V. 8850
Mackey, George W. 12968
Mackey, Michael C. ★9708
Mackichan, B. 8754, 11404
MacKinnon, Robert F. 4047
Mackjavičjus, V. *See* Mackevičius, V.
Mac Lane, Saunders 2387, 2747. *See also* ★2371
MacNeill, Ian B. 14199
Mačov, A. *See* ★4218
MacPherson, Robert 317
MacPhie, R. H. 6459
MacQueen, James 1425
Macrì, Patrizia 5225
Macris, G. *See* 7157
MacWilliams, F. J. 12724
Mączyński, M. J. 9374. *See also* 12004
Madan, B. B. 12315
Madan, K. C. 8922
Madan, Manchar L. 2624
Madan, Om. P. 1776
Maddox, I. J. 5671
Mader, R. 1872
Mader, W. 2525, 7312
Madhaven, S. 12933
Madlener, K. 12510
Madorskiĭ, V. M. 1592, 1593
Madrahimov, H. 13408
Madsen, I. 1220, 13952
Madsen, O. B. G. *See* 2138
Madsen, O. L. 6572
Madsen, Richard W. 11632
Maduch, Marian 4918, 4961
Maduram, D. M. 7281
Madzagua, Z. K. 632
Maeda, Yoshiaki 8539
Maehara, Ryuji 6128
Maekawa, Takayoshi 4382
Maess, G. 14360
Magari, Roberto 7216
Magazinnikov, L. I. 11185, 11194
Magerramov, A. M. 13200
Magid, Andy R. 5254, 10238, 10283
Magiera, Ryszard 3999
Magill, K. D., Jr. 10458, 12942
Magliveras, Spyros S. 394
Magnaradze, L. G. 974, 2983
Magnin, Louis 10510
Magnus, K. 9208
Magnus, R. J. 6191, 13986
Magnus, Wilhelm 7924, ★10423. *See also* 3040-3047, 4051-4054, 14304
Magri, F. 13997, 14652
Mah, P. 3596
Mahalanabis, A. K. 12315
Mahalanobis, Prasanta Chandra *See* 9949
Mahankov, V. G. 762
Mahar, T. J. 13201
Mahé, Louis 7255
Maheshwari, Amar 2906
Maheshwari, Shachindra N. 14427
Mahler, Kurt 2596, 12667, 12674, 12675
Mahmud, Z. 11331
Mahmudov, A. P. 1629, 5661, 8201
Mahmudov, H. 13626
Mahmudov, Ju. A. ★4886
Mahmudov, M. D. 5602
Mahmud-zade, R. A. 577
Mahno, S. Ja. 1381, 3851
Mahorkin, V. V. 1187, 11189
Maĭboroda, Ĭ. M. 5625, 5626
Maier, G. 1812
Maier, Rudolf 5346
Maĭer, V. R. 10402
Maier, W. *See* 8059
Maĭkov, E. V. 29
Maillard, C. 11780
Maiorana, James A. 11366, 12866
Maĭorov, V. E. 826, 10946
Maĭorov, V. M. 12458
Maire, H.-M. 8277
Maison, Dieter 1993, 14602
Maisser, Peter 14482a-b
Maĭstrovskiĭ, G. D. 1293
Maiti, M. 1197
Majcher, G. *See* 8059
Majda, Andrew 13337, 13341-13343
Majewski, Władysław A. 6772
Major, Péter 3823, 3824
Majumdar, Mukul 9630
Makagon, A. 14072
Makai, E., Jr. 6042
Makanin, G. S. 7663
Makarčuk, M. M. 7127
Makarenko, G. I. 5627
Makarov, B. M. 13524
Makarov, O. M. 11840
Makarov, V. L. 6906
Makdonal'd, I. G. *See* Macdonald, I. G.
Makhankov, V. G. *See* Mahankov, V. G.
Maki, Gary K. 7128
Makinson, David 2424
Makkai, M. 10009a-b
Maknys, M. 5191
Makoha, A. N. 8468
Makowiecka, H. 2448
Maksimov, E. M. 7110
Maksimovič, N. G. 2506, ★7129
Maksudov, F. G. 13635
Malafeev, O. A. 2230, 9706
Malahovskaja, R. M. 928, 8000, 10832
Malahovskiĭ, V. S. 11187-11189
Malara, F. 10369
Malaŝenko, Ju. R. 9709
Mal'cev, A. A. *See* ★446
Mal'cev, A. I. ★12464, ★12465, 14690
Mal'cev, Ju. N. 10106
Malec, Marian 6515
Malek-Mansour, M. 7055
Malgarini, Giorgio 5638
Malgrange, B. 7845
Malik, David J. 1994
Malik, M. A. 671
Malin, S. ★7687
Malinka, Gert 3230
Malinovskiĭ, B. N. *See* ★9919, ★9920
Malinowski, Krzysztof 14818
Malkevitch, Joseph 2544b
Malkin, I. A. 1948
Mallet-Paret, J. J. 3063, 3753, 11378
Malliavin, Paul 2929, 8899, 11531, 13152
Malliavin-Brameret, Marie-Paule 10359, 11531, 12750, 13152
Mallion, R. B. 2523
Mallios, Anastasios 8291
Mallows, C. L. 2326, 4059
Mally, Ernst ★7187
Malov, Ju. I. 9316
Malozemov, V. N. 4100
Maltman, Kim 6660
Maltz, F. H. 12316
Maltz, R. 6035
Małuszyński, Jan *See* ★4876
Malvestuto, Vincenzo 9600
Maly, Kurt 9195
Malyhin, V. I. 8573, 13839
Malyšev, A. V. 9935, 9936, 9944. *See also* 9
Malyšev, F. M. 7876
Malyšev, V. A. 1000
Malyshev, A. V. *See* Malyšev, A. V.
Malzan, Jerry 7601, 9372
Mamaev, D. D. 7085
Mamatov, Ju. A. 2347, 4844, 4845
Mamažanov, B. 5474
Mamedov, A. M. 5772
Mamedov, A. P. 3146
Mamedov, Ja. D. 672a-b, , 4900, 5921
Mamedov, Ju. A. 4900
Mamedov, N. E. 5731
Mamedov, S. G. 1945
Mamford, D. *See* Mumford, D.
Mammitzsch, Volker ★14311
Mamojka, Branislav 9493
Manacher, Glenn *See* 4173
Manakov, S. V. 14617
Manca, M. G. 11776
Mancuso, Vincent J. 13877
Mandel, L. 11989
Mandelbaum, David M. 9837
Mandelbaum, Richard 1256
Mandelbrot, Benoit B. 4022b, 11459a-b
Mandelker, Mark 1168
Mandl, Robert 4186
Mandrioli, D. 9167, 9168, 14449
Mandžavidze, G. F. *See* ★9903
Manes, Adele 13987
Manes, Ernest G. 2753, ★7578
Mangano, Gian-Carlo 11488, 14067
Mangasarian, O. L. 2210
Mangeron, Dumitruion 8199, 11011. *See also* ★4327
Manglik, R. C. 7882
Manin, Ju. I. 5194, 10153, ★10268. *See also* 11, ★7483
Manitius, Andrzej 12265
Mank, Ad 10033
Mańka, Roman 1183
Man'ko, V. I. 1948
Mann, Avinoam 7611, 12890
Mann, Henry B. ★12703
Mann, L. N. 8685, 11365, 11367
Manna, N. C. 2893
Manna, Zohar 4169
Manna Ciarrapico, Lucia 5235, 8466
Mannepalli, V. L. 10454a-c
Manocha, H. L. 7914
Manocha, Jitendra N. 2727
Manohin, A. N. 9030
Manolache, Nicolae 12795
Manolescu, N. 6612
Manolov, S. 9209
Manougian, M. N. 6280
Manovcev, A. A. 7660
Manselli, Paolo 10834
Mansfield, Lois 3233, 11731
Mansour, M. *See* Malek-Mansour, M.
Mansoux, Alain 7241
Mantero, Anna Maria 3294
Manvel, Bennet 12578
Maqusi, M. 7096
Maracchia, S. 2389, 12470
Marandžjan, G. B. 4936
Maravall Casesnoves, Darío 1423
Maravić, Manojlo 8143
Marble, F. E. 6802
Marcal, P. V. *See* ★9283
Marcellini, Paolo 13300
Marčenkov, S. S. 9998
Marchal, B. 1403
Marchal, C. *See* 7157
Marchal, Christian 4226
Marchand, Jean-Paul 12065
Marchesini, Giovanni 2342
Marchi, Ezio 6967, 12230
Marchionna, Ermanno 12779
Marcu, Dănuţ 5035

Marčuk, G. I. ★4500, ★11724. *See also* 6, ★6471
Marcus, Brian 1302, 10564
Marcus, Froim 1100, 8469
Marcus, M. B. 1356
Marcus, Marvin 7502
Marcus, Michael B. 8826, 14070
Marcus, Moshe 527, 8267
Marcus, R. A. 6604
Marcus, Solomon ★9174
Marczewski, Edward *See* ★2406, ★2407, 9958
Marden, Albert 540
Marden, Morris 7762
Mardešić, Sibe 8562
Mardia, K. V. 3940. *See also* 11536, 11537
Mardin, A. 14596
Mardžanišvili, K. K. 32
Mareczek, G. 6686
Marek, I. 2046, 3493 3494, 11087, 14668
Marek, W. *See* ★2412
Mărgăritescu, Eugen 11675
Margetan, F. J. 9412
Margolin, Barry H. 14233
Margulis, G. A. 10486
Mariano, Roberto S. 14297
Maričev, O. I. 10899
Marietta, M. G. 1814
Marinari, Maria Grazia 297
Marinov, P. 14526
Marino, A. 6192
Mariño, Rafael 56
Marinov, M. S. 5497, 9469
Marinov, P. 4365
Maritz, J. S. 11599
Mariyappa, B. V. 9322
Mark, Jon W. 2323
Markellos, V. V. 1753, 7157
Markham, Joanne 4101
Markin, J. T. 1031, 8363
Markley, Nelson G. 8731
Markoe, Andrew 3026
Markov, K. 14518, 14530
Markov, P. E. 1139
Markova, E. V. 10040
Markovski, B. L. 9497
Markowski, Jakub 6915
Marks, Dennis W. 6884
Marks, Tomasz 9094
Markus, Lawrence 13689
Markwald, Werner 14889
Marquetty, A. 49
Marquina, A. 881, 8205, 11014
Marrett, R. 9873
Marris, A. W. 1864
Marro Borau, J. 2033, 2034
Morrocco, A. 1661
Marruccelli, Aldo 10245
Marschak, Jacob 1425
Marsden, J. 4553, 13980, 13981
Marsden, Jerrold E. 8041
Marsh, T. 1682
Marshall, Albert W. 5409
Marshall, J. A. 1664
Marsten, Roy E. 14778
Martelli, Alberto 12392
Martelli, Mario 5918
Martens, Susan 7705
Martin, André 9400
Martin, C. 5981
Martin, D. A. 8593
Martin, David F. 9175
Martin, Harold W. 1177, 11290
Martin, Jacqueline 5887
Martin, John C. 855
Martin, Maria *See* ★12430
Martin, N. F. G. 10533
Martin, Philippe A. 4428, 9534
Martin, Pierre 2544a
Martin, W. C. 4786
Martindale, Wallace S., 3rd. 10344
Martineau, André 10646
Martineau, Gérard 14186
Martinelli, M. R. 9044
Martinet, Jacques 7432
Martinez, J. 2556
Martínez Naveira, A. 6026
Martínez Verduch, José Ramón 2790, 10401
Martini, R. 13202
Martinjuk, A. A. 10809
Martinjuk, D. I. ★3130
Martin-Löf, A. 14684, 14685
Martin-Löf, P. 1447. *See also* 6338
Martinson, L. K. 9316, 9317
Martio, O. 545
Martirosjan, G. A. 10835
Martynjuk, D. I. *See* Martinjuk, D. I.
Martynenko, Ju. G. 14481
Martynov, G. V. 6352
Martynyuk, A. A. *See* Martinjuk, A. A.
Maruhashi, Toru 1585
Maruoka, Akira 4866
Marușciac, I. 5445
Marušin, M. N. 11460
Marussi, A. 6000a-b
Maruyama, Takeo 4721, 9719
Marx, Manfred 11729
Marxen, Donald 455
März, Roswitha 12286, 14315
Marzicin, B. M. 9250
Marzuq, Maher M. H. 13436
Masani, P. 8351
Maschietti, Antonio 10249, 10250
Maschler, M. 4693
Mas-Colell, Andreu 4694
Maserick, P. H. 872
Masiewicki, Leon 10280
Maskawa, Toshihide 1966
Maskit, Bernard 10594
Mašlanka, P. 6717
Maslennikova, A. I. 4565
Maslov, K. V. *See* ★21
Maslov, V. P. 29. *See also* 6
Masol, V. I. 3867, 8802 11521
Mason, D. P. 4353, 9580
Mason, David R. 2785
Mason, David W. 10065
Mason, Geoffrey 7606a-c
Mason, Gordon 7558
Masry, Elias 1512, 4807
Massa, Enrico 4539
Massabò, Ivar 6117
Massari, Umberto 5953, 8415, 8416
Masser, D. W. 12676
Massot, J. N. 6798
Mastran, David V. 1518
Mastrangelo-Dehen, Michèle 5799, 10639
Masuda, Kazuo 6157, 6168
Masunaga, Yoshifumi 9893
Masur, E. F. 4268
Masur, Howard 5506
Matarasso, Silvano 10829
Mataušek, M. R. 6511
Matchett, Andrew 12818
Matczyński, M. 1808
Máté, Attila 12528
Mateescu, Cristea *See* ★9910, , 12457
Mateev, Alipi 13750
Mateev, M. D. 9477, 9478a-b, 9479a-b, 9480
Matessi, C. 2247
Mathai, A. M. 3964
Mathar, R. 11190, 13747, 13748
Mather, J. N. 587, 13975
Matheron, Georges 11441
Mathew, Joseph 7690
Mathews, J. 6827
Mathon, Rudolf 2503
Mathur, Asha 11281
Mathur, B. L. 7895
Mathur, K. K. 10930
Matičuk, M. I. 13317
Matijasevič, Ju. V. 2444. *See also* 6, ★9966
Matkowski, Janusz 772. *See also* 8059
Matkowsky, B. J. 9291
Matsubara, Nozomu 8936
Matsuda, Akira 4154
Matsuda, Ryûki 7529, 10232
Matsuda, Tadayuki 14216
Matsui, K. 11779
Matsumoto, H. 2043
Matsumoto, Kôzi 8514
Matsumoto, Makoto 1117, 4540, 13767
Matsumoto, Masamichi 12157
Matsumoto, Masatsune 8525
Matsumoto, T. 12393
Matsumura, Akitaka 8048
Matsumura, Mutsuhide 10864a-b
Matsunaga, Hiromichi 606, 12776
Matsunawa, T. 1442, 10694
Matsushima, Yozo ★608, 6176, 7871
Matsuyama, Yoshio 3634
Matthews, G. V. T. 11536
Matthews, P. T. 1920
Matusita, Kameo 14170
Matušů, Josef 11732
Matveev, N. M. *See* ★9899
Matveev, V. A. 9455a-b
Matveeva, I. I. 11048
Matvičuk, K. S. 4484
Maugin, Gérard A. 2104, 6807, 12121
Mauldin, R. Daniel 516
Mauldon, J. G. 344
Maumus, Jean 3351, 11027
Maunder, C. R. F. 1259, 1260
Maurer, H. A. *See* Maurer, Herman A.
Maurer, Helmut 1079
Maurer, Herman A. 9177
Maurer, Juliane 8785
Maurer, W. D. 9138
Maurer, Willi 14233
Maurey, B. 910, 8333, 8851, 13024, 13613, 13614
Maurin, J. 11727
Maury, G. ★12819
Mauve, Reinhard 7589
Mavron, Vassili C. 7279
Mawhin, Jean 7963, 11119
Maxson, C. J. 7673
May, C. P. 8102, 10945
May, Coy L. 13071
May, J. P. ★8623b
May, Warren 2718, 10443
Mayants, L. S. 2024, 2025, 6795, 12066
Mayer, Dieter H. 6210
Mayer, J. *See* 2138
Mayes, Vivienne 4901
Maykut, Albert R. 9647
Mayne, D. Q. 12275
Mayne, Joseph H. 7520
Mayoh, Brian H. 4194
Mayorga, Bernardo *See* ★3132
Mazanov, Alex 12243
Mazet, Edmond 8756, 13988
Mazet, Pierre 13145
Maz'ja, V. G. 718, 719. *See also* 7161
Mazo, J. E. 4814
Mazumdar, N. C. 5490
Mazur, B. *See* 18
Mazur, Barry ★3711
Mazur, P. 2068
Maz'ya, V. G. *See* Vazja, V. G.
McAdam, Stephen 2641, 12754
McAlister, D. B. 12937, 12938
McAllister, D. B. 10460
McAvaney, K. L. 12567
McBryan, Oliver A. 9432
McCabe, J. H. 10614
McCabe, John 2628
McCabe, Robert L. 4893
McCall, John J. 9628
McCann, Roger G. 10708
McCarl, B. 4664
McCartan, S. D. 11261
McCarthy, Charles A. 3456
McCarthy, Charles E. 2338
McCarthy, D. 2496, 2497, 5007
McCarthy, Mary Anne 4117
McCarthy, Matthew F. 4340, 9244
McCarthy, Paul J. ★2629, ★5171
McCausland, Ian 4103
McClamroch, N. H. 7058a-b
McClary, W. K. 9458
McCleary, Stephen H. 12597
McClennen, Edward F. 9687
McClure, J. P. 7968
McCluskey, Edward J. 2355
McConalogue, Denis J. 4065
McCool, John I. 9024
McCool, John M. 9808
McCormack, P. D. 1875
McCormick, Garth P. 2211
McCormick, S. F. 1571
McCourt, F. R. 6834
McCoy, John J. 8870
McCoy, P. A. 10629
McCrea, J. D. 4509
McCrea, P. G. 11751
McCreight, Edward M. 1708
McCrory, Clint 3718
McDiarmid, C. J. H. 7321
McDonald, Alvis E. ★6485
McDonald, Gary C. 11629
McDonald, John N. 3418
McDonnell, J. H. *See* ★4327
McDonnell, M. J. 7097
McDowell, Kenneth P. 2642, 5207
McDowell, Robin S. 4037
McFadden, Daniel 9630
McFarland, David D. 9734
McGavran, Dennis 3729
McGehee, Richard A. 9722
McGivney, Raymond J. 3358
McGlothin, G. E. 7046, 11135, 12290
McGrath, S. A. 5866, 8353
McGregor, Colin M. 7530
McGuire, C. B. 12367
McHenry, C. E. 3639, 14241
McKean, H. P. 11529, 11534
McKee, S. 1678
McKee, T. A. 4970
McKelvey, Robert 7980
McKenzie, Ralph 11876
McLachlan, G. J. 11666
McLain, D. H. 12908
McLain, E. 14824
McLaughlin, Joyce R. 638, 13203
McLaughlin, T. G. 2438, 10020
McLenaghan, Raymond G. 14706
McLeod, J. B. 5533, 5614, 14548
McLeod, R. 1541, 14308
McMahon, D. 1188
McNeil, D. R. 4722
McPherson, J. D. 2339
McQuillan, Donald L. 10221
McWeeny, R. ★1907
Mead, R. *See* 1529
Mecke, J. 14094
Mecklenbräuker, Wolfgang F. G. 12295
Medina Perea, Alberto 8669, 8670
Meditch, J. S. 14826
Medvedev, V. A. 7098
Meeks, William H., III 13739
Meenakshi, A. R. 5273
Meerov, M. V. 14369. *See also* ★2375 ★9605
Meersman, W. 6986
Meggs, William J. 14725
Megibben, Charles 5369
Meher, F. M. 1118
Mehlhorn, Kurt 76
Mehra, A. N. 3311
Mehran, H. A. 5299
Mehta, B. S. 6704
Mehta, F. C. 4808
Mehta, J. S. 8969
Mehta, M. L. 12067
Mehtiev, A. A. 8187
Mehtiev, A. G. 3391
Meidan, Reuven 9362

Meier, W. 12116
Meier, Willi ★1213, 11322
Meijer, H. G. 10169
Meĭlanov, V. S. 2926
Meiling, Erik 11858
Meinardus, Günter 10941, 10948. *See also* ★106
Meinguet, Jean 2144, 10956
Meisel, L. V. 6711
Meixner, Josef 11997
Mekler, S. G. 4064
Méla, Jean-François 860
Meladze, G. V. 4136
Melamed, I. A. 3906
Melamed, V. B. 5494
Melamud, I. N. 1602
Melan'ina, T. M. 3117
Melihov, A. N. 125
Melik-Adamjan, F. È. 1012
Melik-Adamjan, P. È. 13600
Melikhov, A. N. *See* Melihov, A. N.
Melkanoff, Michel A. 4170
Mel'nik, I. I. 433
Mel'nik, Ju. Ĭ. 13046
Mel'nikov, M. S. 13573
Mel'nikov, O. V. 7697, 12958
Mels, T. È. 14034
Melzak, Z. A. 6810
Mémin, Jean 6264
Memnonov, V. P. 13155
Mendel, Jerry M. 14849 *See also* 14850
Mendel'son, È. ★4907
Mendès France, Michel 266, 7394. *See also* ★5138
Mendez, C. G. 5412
Mendoza, Jorge L. 14251
Menegazzo, Federico 429
Menger, Karl 13709
Mengzijaev, B. 3180
Menichetti, Giampaolo 8440
Menihes, L. D. 11086
Menikoff, Ralph 2051, 2052, 4464, 10029
Menon, Premachandran R. ★12381
Mensch, Gerhard 12195
Men'šikov, I. S. 4690
Mentrasti, Patrizia 7227
Menzala, Gustavo Perla 8049
Menzel, Donald H. 9581
Meo, Angelo R. 2348
Mercer, A. McD. 5156
Mercier, Bertrand 14516
Meredov, B. 1344, 14093
Mergeljan, S. N. 7175
Merikoski, Jorma 10303
Merkes, E. P. 10999
Merkin, D. R. 1754, 14483a-b. *See also* ★2401
Merle, Michel *See* ★2662
Merlier, Thérèse 7348, 10455
Merlin, A. V. 5757
Merris, Russell 341
Mersereau, Russell M. 1565
Merten, K. 11781
van der Merwe, A. J. 6795
Merz, Gerhard 10941
Meščerjakov, B. K. 9117, 9118
Meschkowski, Herbert ★4880, ★4881
Message, P. J. *See* 7157
Messager, A. 4450
Metcalf, F. T. 6418, 13406
Métivier, Guy 13339
Métivier, Michel 8866
Metze, Gernot 9882
Meyer, A. R. 6557, 9153, 11849
Meyer, Burnett 10626
Meyer, G. H. 11818
Meyer, H. D. 10628
Meyer, J. 1574
Meyer, John F. 7305
Meyer, P. A. 3860b, 3861, 3862, 6277, 8889, 10635, 14084, ★14091, 14118
Meyer, Paul R. 8566
Meyer, R. E. 6669
Meyer, Richard E. 6611
Meyer, Robert K. 7204
Meyer, W. Weston 10942
Meyer, Y. 267, 268, 2613, 5734, 5735
Meyer-Brötz, Günter 4809
Meyers, David R. 8403
Meyers, Norman G. 5618
Meyerson, Mark D. 13916
Meystre, Günter 7336, 10088
Mézard, Alain ★2371
Mhitarjan, S. M. 1803
Miamee, A. G. 8819
Micall, Artibano 232 *See also* ★12641
Miccheli, C. A. 4128
Michael, E. 6067
Michael, J. H. 13302
Michaelis, J. 14245
Michalek, Joel 1443
Michel, Anthony N. 7057
Michel, Dominique 6031, 6196
Michel, Philippe 14834
Michel, R. 8953, 11457
Micheletti, A. M. 1062
Michell, A. G. M. *See* ★9270
Michelot, F. 1938, 12011
Michler, Lothar 2748
Mickelsson, Jouko 2741, 10501
Mickevič, N. V. 2075
Mickle, Marlin H. 6907, 12177
Micula, G. 1683
Midha, C. K. 12538
Midy, P. 9051
Miel, George 14361
Mielants, W. 7329, 12546
Miele, A. 1054
Miellou, Jean-Claude 11764
Mierlea, V. 2185
Mifflin, R. 4670
Migaĭ, N. I. 1395
Miglietta, F. 4383–4386
Mignani, R. 6868
Mignot, F. 11136
Mignotte, Maurice 2576
Migovič, F. M. 3327
Mihăileanu, N. ★8423
Mihaĭlec', B. M. 1674
Mihaĭlec, V. A. 3079
Mihăilescu, M. 9251
Mihaĭlov, A. I. *See* ★9914
Mihaĭlov, F. A. 9763
Mihaĭlov, G. K. *See* ★9235, ★9288
Mihaĭlov, L. G. 13497
Mihalev, A. V. 2723. *See also* 9
Mihaĭlov, G. I. 6561
Mihailov, I. I. 10137
Mihaĭlov, L. G. 33
Mihaĭlov, V. N. 11998
Mihaĭlov, V. P. 5616, 13311
Mihalevič, V. S. *See* ★9919, 9920
Mihlin, S. G. 3509, 10823, ★11882
Miheev, Ju. V. 5432
Mihoc, Gh. 9945
Mijoule, Richard 10010
Mika, J. 14674
Mikhailov, F. A. *See* Mihaĭlov, F. A.
Mikhailov, G. I. *See* Mihaĭlov, G. I.
Mikhlin, Salomon G. *See* Mihlin, S. G.
Mikloško, Jozef 1556, 6455, 14332
Mikola, Milan 12564
Mikulec, A. T. 8029
Mikusiński, Jan ★924
Milanese, Mario 12276
Miles, John W. 9318
Milešina, R. I. *See* Mil'ošina, R. Ĭ.
Miletta, Dennis 7933
Milgram, David L. 9161
Milgram, M. 138
Milgram, R. James 8646, 8660
Milić, Svetozar 10445
Miličić, Pavle M. 5297
Milka, A. D. 8534, 11251, 11252
Miller, Bruce L. 2140, 4590
Miller, Douglas R. 3873
Miller, Harry I. 10535
Miller, John Boris 204
Miller, John L. 6148
Miller, M. H., Jr. 12996
Miller, R. K. 3323
Miller, Robert B. 4015
Miller, Rupert G., Jr. 9001
Miller, Sanford 530, 554, 2938
Miller, W., Jr. 1924. *See also* 12426
Miller, Webb 11752
Miller, William H. 4395
Millett, Kenneth C. 11340
Millevoi, Tomaso 2631
Milliken, George A. 6381
Millionščikov, V. M. *See* 6
Millman, Richard S. 1124
Mills, Janet E. 10456
Mills, T. M. 3219
Millson, John J. 10488
Mil'man, D. A. 7767
Milman, V. D. 8237, 8240
Milne, Ed 12545
Milne, Hamish K. 5855
Milne, J. S. 2659, 7471. 7473
Milne, R. K. 11422
Mil'ner, A. A. 7567
Milner, E. C. 2469, 7270
Milner, Robin 4171
Milnes, Harold Willis 1538
Milnes, Paul 7689, 8168, 10982
Milnor, John 6169, 12970
Milo, Władysław 12182
Mil'ošina, R. Ĭ. 1406, 14052
Milota, Jaroslav 5925
Milovanov, M. V. 472
Mil'štein, A. I. 9436
Mil'štein, G. N. 3498
Miluševa, S. D. 3326, 8195
Mimura, Mamoru 3732
Minagawa, S. 1825
Minami, Haruo 3727a-b
Minasjan, A. F. 9264
Minato, Kotaro 4654
Minčeva, M. I. 9240
Minda, C. D. 7774, 7775
Mine, Hisashi 4642, 6924, 6951, 12215
Mineev, M. P. 2484
Minemura, Katsuhiro 13475
Minio, Roberto *See* ★9985, ★9986
Minker, Jack 9192
Minlos, R. A. 4485
Minnaert, P. 11204a-b
Minoux, Michel 5044, 5052, 9638
Minzoni, A. A. 14549
Mira, C. 10763
Miranker, W. L. 1639, 4128, 10777, 11791
Mirashi, Manik 11016
Mirică, Şt. 2296a-b, 11130
Mir-Kasimov, R. M. 9477, 9478a-b–9480
Mirman, B. A. *See* Mirmans, B.
Mirman, Leonard J. 2153
Mirmans, B. 5862
Mironov, A. A. 4265
Mironov, A. V. 202
Mironov, B. N. 5050
Miropol'skiĭ, Ju. Z. 4312
Mirošin, N. V. 8009, 10846
Mirošnik, S. N. 1742
Mirsalimov, V. M. 14495
Mirza, Kais B. 11151
Mirzaev, Č. È. 5476
Mirzahmedov, M. A. 3949, 8820
Mirzo-zade, D. I. 11169
Miščenko, A. S. 1261. *See also* 6
Mišeikis, F. F. 8803
Mišenkova, T. A. 5641
Misguich, J. H. 2058
Misheloff, M. N. 9438
Mishra, B. P. 10920. 13371
Mishra, R. S. 1125, 9319, 13774, 14726, 14727, 14730
Mišicu, M. 6651
Mišík, Ladislav 34
Misiurewicz, Michał 3672
Misjurkeev, I. V. 6626
Miškoĭ, G. K. 14155
Mislin, Guido 3690, 13908
Mislove, Michael 452, 8163
Mišnaevskiĭ, P. A. 10790
Misner, Charles W. ★6869
Misnik, M. P. 14574
Mišoň, Karel 9210
Misra, A. D. 4102
Misra, B. N. 6770
Misra, Jayadev 6537
Misra, K. B. 12189
Misra, M. 12139
Misra, O. P. 870
Misra, R. C. 1950
Misra, S. B. 3612, 13768
Mistura, L. 6821
Mišutin, V. G. 14333
Mita, Tsutomu 2276, 9751
Mitalauskas, A. 11461
Mitchell, A. R. *See* Mitchell, Andrew R.
Mitchell, A. Richard ★2373, 10723
Mitchell, Andrew R. 1664
Mitchell, Bill 6448
Mitchell, Roger W. 2373, 5564
Mitev, Ĭ. G. 4643
Mitew, W. 12475
Mitiagin, B. S. *See* Mitjagin, B. S.
Mititelu, Ştefan 5410
Mitjagin, B. S. 8253, 11021. *See also* ★6891
Mitjugov, V. V. 12069
Mitjuk, I. P. 544
Mitra, Sujit Kumar 3910, 5270
Mitra, Tapan 9630
Mitrinović, D. S. *See* ★3061, ★3062, ★7155
Mitrofanov, V. B. 9622
Mitropol's'kiĭ, Ju. O. 675, 7178, 9946, 10760, 10761, 10791, 13236. *See also* ★3130, 12450
Mitsch, H. 7349
Mitskiévič, N. V. *See* Mickevič, N. V.
Mitsuhashi, Teruo 9328
Mittal, D. P. 3202, 4822
Mittal, Yash 1359, 1360, 14068
Mitteau, Jean-Claude 11387
Mittelmann, H. D. 4144, 11782
Mittelstaedt, P. 1908, 1910
Mityugov, V. V. *See* Mitjugov, V. V.
Miyahara, Yoshio 12332
Miyajima, Shizuo 11105
Miyakawa, Hiroshi 9838
Miyake, Masatake 3147
Miyama, Tōru 60
Miyanishi, Masayoshi 7481
Miyata, Masachika 14869
Miyatake, Sadao 3170
Miyazaki, Ken-ichi 959
Miyazaki, N. 14541
Miyazawa, Masakiyo 6323
Miyazawa, Teturo 11211
Miyoshi, Tetsuhiko 9116
Mizel, Victor J. 8267
Mizoguchi, Tetsuo 4214
Mizohata, Sigeru 701, 10812
Mizori-Oblak, Pavlina ★8443
Mizukami, Koichi 4103
Mizutani, Tadayoshi 11352
Mjasnikov, V. P. ★14524
Mkhitarian, S. M. *See* Mhitarjan, S. M.
Mlček, Josef 2460
Mleziva, Miroslav 7242
Mnacakanjan, M. A. 8189
Moauro, V. 8596
Möbius, P. 9382
Mocanu, Gh. 11093
Mocanu, Petru T. 2938
Mochizuki, H. 398, 399
Mochizuki, Kiyoshi 5603
Mociuţchi, Cleopatra 4513

Mock, M. S. 5623, 11814
Mócsi, Judit 2138
Moĉul'skiĭ, E. N. 185
Modarressi, A. R. 4776
Modi, G. C. 13161
Modina, L. S. 6573
Modugno, Marco 1809, 12140
Moeglin, Colette 7565
Moenck, Robert T. 10185
van Moerbeke, Pierre 1367, 14480
Moessinger, P. 9616
Mogilevskaja, L. B. 10792
Mogilevskiĭ, M. G. 12594
Mogul'skiĭ, A. A. 8810, 8888
Moh, T. T. 2647
Mohamed, Saad 7549
Mohan, Madan 13485
Mohan, N. R. 6312
Mohanty, N. C. 11609
Mohler, L. 11271
Mohon'ko, V. D. 2968
Mohov, V. N. 3542
Moiseev, E. I. 10887
Moiseev, N. N. ★9740
Moiseiwitsch, B. L. 2008
Moĭšezon, B. G. 1256, 13146
Moisil, Grigore C. *See* 8457
Mokeĭčev, V. S. 3144
Mokhov, V. N. *See* Mohov, V. N.
Mokljačuk, M. P. 3833, 14073
Mokobodzki, Gabriel 7827. *See also* 10636
Mokre, Johann *See* ★7187
Molčanov, S. A. 1404, 7940
Molinari, B. P. 9744, 12273, 12274
Molinari, Loris 8470
Molinari, V. G. 14660
Molino, Pierre 1252, 8671, 11419, 14019
Moll, Robert 77
Möller, H. 7422, 10188
Møller, Uffe 1520
Mollin, R. 10209
Mollison, Denis *See* 1529
Mollov, Todor Ž. 12878
Molnár, J. 13732
Molnár, L. *See* 2138
Molodenkov, V. A. 13045, 13204
Molokovič, Ju. M. 1624
Molotkov, I. A. *See* ★14569
Momot, I. P. 10758
Monahov, V. N. 1846
Mönch, Wolfgang 14362
Monchick, L. 9535
Moncibović, B. R. 13416
Moncrief, Vincent 4541
Mond, B. 2186, 4628, 10949
Monegato, G. 6463
Money-Coutts, G. B. ★1066
Monjardet, Bernard ★7333, ★7334
Monkhorst, Hendrik J. 6837
Monrad, Ditlev 11526
Monroe, Itrel 14085
Monsky, P. 10270
Montanari, Ugo 1739
Montella, Eduardo 9970
Montemayor, J. J. 342
Montes, C. G. 7018
Montesinos Amilibia, José María 8609, 8635, 13895
Montgomery, David 6684
Montgomery, Hugh L. 5135, 7399
Montgomery, Susan 12821
Monti, Katherine L. 14212
Monti Bragadin, Giacomo 3745
Montroll, Elliott W. 14687
Monzingo, M. G. 5094, 8426
Moodie, T. Bryant 11904, 11915, 14513
Moór, A. 8385, 11219. *See also* 8059
Moore, B. C. 7024
Moore, Calvin C. 2867, 2868, 7693, 13033
Moore, D. W. 4319
Moore, David S. 6372, 14221. *See also* ★11591
Moore, J. B. 4784, 5932, 11514
Moore, James C. 4591
Moore, John C. 1211, 3733
Moore, John I., Jr. 5060, 5062
Moore, Marc ★11423
Moore, Marion E. 5564
Moore, R. E. 9061
Moore, R. J. 11841
Moore, Steven M. 2053
Moose, Paul H. 2306
Moraal, H. 4459, 4473
Morales, Juan-Antonio 11716
Morales, Pedro 6075
Moran, Gadi 422, 423, 2769
Moran, P. A. P. 6988a-b, 9720, 11577, 11584
Moran, William 5743, 5744
Mora Osejo, Luciano 260
Morash, Ronald P. 5067
Moravský, L. 641
Moré, J. J. 6490
Morel, Josette 1873
Moreno Armella, Luis 7712
Moret-Bailly, J. 12011
Morettin, P. A. 4839
Morf, Martin 4787
Morgado, José 7358
Morgan, Byron J. T. 3856, 9029
Morgan, Charles G. 4867
Morgan, Christopher L. 10277
Morgan, Frank 3561
Morgan, J. D. 1845, 4299, 11957
Morgan, John C., II 13880
Morgan, John D., III 6733
Morgenstern, Dietrich 3795
Mori, Hazime 9547
Mori, Kinji 4750
Mori, Masatake 6522
Mori, Seiki 13082
Mori, Takehiro 14839, 14843
Mori, Toshio 3843, 11470
Moriarty, G. 12239
Moriarty, K. J. M. 1930, 6725
Morice, E. 8974
Moriconi, Franco 12368
Móricz, F. 847, 6245
Morimoto, Tohru 8661
Morin, T. L. 14783
Morin, Thomas L. 14778
Morishima, M. 4592
Morisugi, Kaoru 3701
Morita, Katsusada 2013
Morita, Katuhiko 4154
Morita, Kiiti ★5284
Morita, S. 1242
Morita, Tohru 9513
Morita, Yasuo 12720
Moriya, Etsuro 6574
Moroianu, M. 309
Morosi, Carlo 6870a-b
Moroz, D. Z. 12405
Morozan, Toader 12328
Morozov, B. V. 12405
Morozov, E. N. 5703
Morozov, S. F. 3537, 4479, 8392, 14667
Morozov, V. A. 11772
Morphy, N. J. 11750
Morrell, J. S. 951
Morris, Hedley C. 9383, 9405, 9406
Morris, J. E. 11667
Morris, J. Ll. 6514, 9345
Morris, Joel M. 7073
Morris, P. D. 897
Morris, Paul H. 4943
Morris, R. A. 286
Morris, Sidney A. 12951, 12952
Morrison, J. A. 4348
Morrison, T. J. 7741
Morrow, James A. 5505
ter Morsche, Hennie 3220
Morse, A. S. 7059
Morse, Anthony Perry ★13014
Morse, Marston 6170, ★8382, 8714
Morse, P. M. 6331, 6940
Mortimer, Brian C. 10115
Morvan, Jean-Marie 8529
Mosak, Richard D. ★3406
Moscatelli, V. B. 5859, 8209, 11017
Moščenskiĭ, V. A. 9971
Moschovakis, Yiannis N. 82
Moser, Ján 7400
Moser, Jürgen K. 11400, 13112, 13998
Moses, H. E. 4324
Mosevich, Jack W. 14390
Moshinsky, Elena ★4885
Moshinsky, M. 4377. *See also* 4885
Moskalenko, Z. I. 462
Moskowitz, Herbert 6897
Moskowitz, Martin 5741, 12993
Mosolov, P. P. ★14524
Mossino, J. ★8404, 11783
Mostert, Paul S. 10472
Mostow, G. D. 7701, 10487, 10489, 10490, 12454. *See also* 16
Mostow, Mark Alan 1253
Mostowski, Andrej *See* 2398, ★2406, ★2407, ★2412
Mostowski, Tadeusz 307
Moszner, Zenon 773, 7353
Moszyńska, M. 8627, 11327
Motohashi, Yoichi 255a-c, 2602, 7405, 7406, 10171, 12685
Mott, Peter L. 7205
Mott, Thomas E. 10541a-b
Moulin, Hervé 4687, 9703, 12231
Moulin Ollagnier, Jean 10565
Mount, K. R. 12768
Mountford, D. 14115
Moussa, P. 4471
Moussu, Robert 3737
Mova, V. V. 6933, 6934
Movsisjan, H. O. 8137
Movsisjan, Ju. M. 12943
Moya, R. P. 2054
Moyer, R. D. 3495
Moynihan, Richard 1335
Mozer, Ján *See* Moser, Ján
Mozer, Ju. *See* Moser, Jürgen K.
Mozolevskiĭ, I. E. 10842
Mozžilkin, V. V. 11978
Mozzochi, C. J. 9987
Mucci, A. G. 8852
Muchnick, S. S. 14426
Muckenhoupt, Benjamin 5720
Mučnik, A. A. *See* ★44
Mučnik, F. V. 9709
Muenz, Larry R. 3925
Mugalov, A. G. 486
Muhamadiev, E. 5540, 8140, ★11348
Muhamedhanova, R. I. 1330
Muhin, A. B. 1345, 6236
Muhitdinova, N. M. 6433
Muhlhausen, Carl 4046
Muhly, Paul S. 3299
Muhomor, T. P. 6995, 6996
Muirhead, R. J. 3966
Mukai, Juno 3696
Mukai, Yuzo 9874
Mukherjea, Aronava 517, 11436, 11437
Mukunda, N. 6773, 9226
Mukundan, R. 4838
Muley, D. B. 8194
Muljarčik, V. V. 8409
Mullen, Gary L. 2626
Müller, B. J. 5207
Müller, D. W. 9988
Muller, David E. 6555, 11848
Müller, Gert H. ★2458
Müller, Helmut 10170, 12691
Müller, Horst 7237
Müller, Ingo 1902, 6707
Müller, P. C. 3112
Muller, Patrick 14509
Müller, Winfried B. 5196
Müller, Wolfgang 392, 12834
Müller-Pfeiffer, E. 13205
Mullikin, Harry C. 481
Mullin, Albert A. 6118
Mullin, Melvin 11081
Mullin, R. C. 150, ★2321, 2496, 2497, 2519. *See also* ★2471
Mullis, Clifford T. 9779
Mulvey, Christopher J. 12759
Mumford, David ★7451. *See also* 14, , 2393, 9915
Münch, Heinz Josef 13390
Mund, E. H. 6726
Munot, P. C. 7895
Muntean, Ioan 5785
Muntz, R. R. 14416
Muradov, R. I. 13327
Murai, Takafumi 10603
Murakami, Kenji 4848
Muramatu, Tosinobu 8268
Muran, K. V. 7464
Muratov, R. Z. 9335
Murdoch, A. I. 6646
Mureşan, Elena 8437
Murgan, A. T. 12305
Muriel, A. 6808
Mürmann, Michael G. 2069
Murota, Takeshi 14744
Murotsu, Yoshisada 2196
Murphy, J. A. 10614
Murphy, Richard A. 14762
Murphy, W. D. 14380
Murray, David W. 11939
Murray, J. C. 1847, 6670, 14557
Murray, J. D. *See* 12426
Murtazaev, D. 10836
Murtazin, H. H. 10886
Murthy, D. N. P. *See* 7051
Murthy, M. P. ★10227, 10267
Murty, Katta G. ★2187
Murty, U. S. R. ★117, 10053
Murza, L. P. 9829
Musa, F. A. 4145
Musaev, B. I. 7767
Musaev, S. R. *See* ★4887
Musaev, Samandar 13674
Musgrave, M. J. P. 1777, 1778
Mushelišvili, N. *See* ★9235, ★9288, ★9903, 9954
Musielak, Julian *See* ★963
Mustafa, G. M. 14883
Mustafaev, M. I. 2282
Mustafaev, R. A. 11800
Mustafaev, Š. I. 8004
Mustafi, C. K. 11641
Muštari, D. H. 6220
Mustaţă, P. 10632
Muta, Yôichi 865, 10983
Mutafčiev, D. Ž. 8066
Mutafčiev, Ljuben R. 8787
Mutafelija, Boris A. 6451
Muth, D. 9176
Mutio, N. J. 5347
Muzafarova, H. R. 9924
Muzalewski, M. 10107
Mycielski, Jan 11876
Mycielski, Jerzy 14609
Myers, L. E. 11515
Myjak, Józef 13656
Mykkeltveit, Johannes 9875
Myoken, Hajime 12178
Myškis, A. D. 675, 3127, 13188, ★14475
Myškis, P. A. 14011
Mysovskih, P. I. 3545
Myung, Hyo Chul 10351

N

Naas, Josef 7179, 13270
Nababan, S. 7991
Nachbin, Leopoldo ★2925, ★3261, ★3667
Nachman, David C. 14745

Nadaraja, È. A. 14222, 14223
Nadel, Mark E. 2453
Nadiraŝvili, N. S. 13001, 13098
Nadjakov, E. *See* Nadžakov, E.
Nadkarni, M. G. 7690, 8829
Nadler, S., Jr. 8549, 13873
Nadžafov, H. M. 750, 8008
Nadžakov, E. 9393
Naess, Arvid 8067
Naftalevičins, A. 10602
Nagaev, A. V. 1349, 1455, 6995
Nagaev, S. V. 6237
Nagahara, Takasi 10230
Nagai, Takeaki 9014
Nagai, Tamao 1135
Nagami, Keiô 13871
Nagano, Tadashi 6038
Nagano, Takashi 1740, 9735
Nagao, Hirosi, 2840
Nagar, A. L. 9033
Nagaraj, Muppinaiya 14728
Nagaraja, H. N. 3907
Nagashima, Hideyo 12342
Nagata, Motoyasu 2305
Nagel, Alexander 10994, 13135
Nagirner, D. I. 2129
Nagy, Erzsébet *See* 2138
Nagy, P. T. 6004
Nahm, W. 2742a-b, 9498, 12844, 12845
Nahmias, Steven 2164
Nahon, F. *See* 7157
Nahoum, A. 13025
Nahuŝev, A. M. 5633, 13508
Naidin, V. N. 6916
Naidu, S. Venkata Ratnam 8241
Naĭmark, M. A. 3424, 7692, 12983. *See also* 6, 964
Naimpally, S. A. 3596
Naĭr, G. Gopalakrishnan 4104
Nair, V. C. 8174
Naito, Manabu 3129
Naito, Toshiki 686
Najman, B. 6774
Nakache, Jean-Pierre 3973
Nakada, Masami 5462
Nakagami, Junichi 6925
Nakagami, Yoshiomi 5854
Nakagawa, Hisao 5513, 6036
Nakagawa, Ryosuke 8552
Nakagawa, Tomoyasu 11797
Nakagawa, Toshio 4616, 9644, 12196
Nakagawa, Y. 4514
Nakai, Mitsuru 573–575, 7819, 10596, 13069, 13781
Nakai, Teruhisa 9650
Nakajima, Fumio 3095
Nakamura, K. 14851
Nakamura, Masatoshi 880, 11015
Nakamura, Mikio 10838
Nakamura, Osamu 1224
Nakamura, Takashi 2121
Nakamura, Yoshikuni 7789
Nakanishi, Noboru 1967
Nakanishi, Nobutada 8764, 11393
Nakao, Mitsuhiro 5632, 8017, 10859, 10865
Nakaoka, Akira 7999
Nakaoka, Minoru 8679
Nakashima, Katsuya 14413
Nakata, Isamu 9320
Nakazawa, Hiroshi 14689
Nakazi, Takahiko 5838, 8296
Namba, Makoto 3039, 5512
Namysłowski, J. M. 4393
Nanbu, Tokumori 10859
Nanda, S. 9582
Nandan, Krishna 13047
Nanjundaswamy, L. 11649
Nänni, Jürg 6655
Napalkov, V. V. 583
Nappi, Chiara Rosanna 14682
Naradaja, È. A. 3950
Narang, T. D. 1175, 3255, 13424
Narasimha Murthy, S. 4303
Narasimhan, M. A. 12347
Narasimhan, M. S. 12777
Narayan, Ram 1773
Narayana, C. L. 7065
Narayanan, H. 135
Narayana Rao, M. L. 8441
Nardizzi, Louis R. 7100
Nardov, A. V. 12926
Narens, Louis 6976
Narendra, Kumpati S. 12266
Narihisa, Hiroyuki 9654
Narimanjan, S. M. 11511
Narin'jani, A. S. 9139
Narita, Mamoru 13276
Narnhofer, H. 9453, 14560, 14688
Naruki, Isao 13121
Narušis, J. 14597
Narutaki, Ryonosuke 4618
Naseeruddin, Mohd. 7662, 7675
Näsell, Ingemar 4723, 4724
Nash, David 3908
Nash, J. C. 4048, 4053
Nash-Williams, C. St. J. A. 10021
Nasibov, M. H. 5740
Nasibov, S. M. 5477
Nasr, Ali 2070, 3886
Nasr, Mostafa A. 532
Nasrullaev, N. L. 11180
Nassif, N. R. 1614
Nastansky, L. 4725
Năstăsescu, Constantin 2726, 10233
vander Nat, Arnold 64
Natali, A. 7116
Natanzon, S. M. 541
Natarajan, T. 2231
Nath, Pran 6710
Nathanson, M. B. 222, 226, 5404, 6108, 12532
Näther, Wolfgang 8994
Natrošvili, D. G. 1794
Natterer, Frank 4118
Natucci, Alpinolo *See* 2389
Nauber, W. 6496
Naudts, J. 4470
Naumann, J. 3151
Naumenko, K. I. 14836
Naumovič, R. F. 5948
Naus, Joseph I. 6224
Navarro, L. 2032
Nawrotzki, Kurt 2364
Nayak, B. K. 12115
Nayroles, B. 4267, 6647
Nazarjan, R. O. 5388
Nazaroff, Gregory J. 7056, 9812
Nazarova, L. A. ★360
Nažmiddinov, H. 562, 2987
Ndili, F. N. 7650
Neagu, Alexandru 8693
Neal, Larry *See* 12422
Neave, Henry R. 1476
Nebeský, Ladislav 2545
Nebres, B. F. 2455
Nečas, J. 8372, 11914
Nečitaĭlo, A. V. 13691
Neckermann, Ludwig 13158
Necula, Maria-Ana 14864
Nedelec, J.-C. 11992
Nedelin, A. A. 4342
Nedelka, S. 11613
Nedev, Stojan Ĭ. 6077
Nediţă, N. I. 12141
Nedjalkov, I. 6689
Neebe, A. W. 2163
Needleman, A. 1795
Neefpapa, T. A. 402
Nefedov, S. A. 3558
Neggers, Joseph 7273, 7274
Negrepontis, S. 3657
Nehari, Zeev 642
Nehoroŝev, N. N. 1283
Nei, Masatoshi 4711
Neĭman, Ju. Č. *See* Neyman, Jerzy
Neĭmark, Ju. I. 1303, 13222. *See also* ★9917, ★9963
Neĭštadt, A. I. 9211, 9212
Neizvestnyĭ, M. M. 14316, 14317
Nekorkin, V. I. 3102
Nel, L. D. 13833
Nelder, J. A. *See* 3939, 11536, 11537
Nelipa, N. F. 5391
Nelson, Edward 978
Nelson, Evelyn 211, 7331
Nelson, Paul 14661
Nelson, Stuart 3140
Nemec, A. G. 8574
Němec, P. 2710, 2711
Nemetz, Tibor O. H. 9851, 14200
Nemhauser, G. L. 9947
Nemirovskiĭ, A. S. 936
Nemiš, Ju. M. 1796
Nenciu, G. 1931, 9459
Nenov, Nedjalko D. 12915
Neri, Umberto 11049
Nerode, A. 45, 7234
Nešetřil, Jaroslav 133, 173, 10027
Nessel, R. J. 5689
Nesterova, T. N. 6324
Netuka, Ivan 7812, 10638
Neuberger, J. W. 13658
Neuburger, E. 9026a-b, ★12317
Neuefeind, Wilhelm 12234
Neugebauer, G. 12116
Neuhold, E. J. 9140
Neukirch, Jürgen 10214, 12712
Neumann, B. H. 2767, 7306, 7590
Neumann, Dean A. 1226, 14006
Neumann, Holger 9375
Neumann, Michael 330
Neumann, Olaf 292, 5183, 5184
Neumann, Peter G. 9839
Neumann, Peter M. 406
Neustadt, Lucien W. 13682
Neuts, Marcel F. 14142
Nevai, G. P. 13374, 13375
Neuvonen, Timo 5306
Neuwirth, J. H. 10581
Nevai, G. P. 3289, 13374, 13375
Nevanlinna, Rolf ★5468
Nevel'son, M. B. ★11689
Nevesenko, N. V. 11035a-b
Neveu, J. 511, 14119
Neville, Charles W. 899
Neville, R. A. 9418
Nevo, Eviatar *See* ★2238
Nevzorov, V. B. 1395, 3963
Newbould, M. 11517
Newcomb, R. W. 4825
Newell, Alan C. 12027
Newell, Martin L. 7553, 10413
Newhouse, S. 6211
Newman, C. M. 14656
Newman, Charles M. 1943
Newman, Donald 795, 5685
Newman, Donald J. 13402, 14585
Newman, Ezra T. 2095
Newman, M. H. A. 35
Newman, Morris 2476, 2616
Newstead, P. E. 7468
Newton, Isaac *See* 7170, 7171
Newton, J. 14137
Newton, Roger G. 1995, 6769. *See also* 12426
Ney, Andrei 1150
Neyama, Jun 4103
Neyman, Jerzy 4709, 12160. *See also* 6344
Ng, Kung Fu 11022
Ng, Tung Sang 13670
Ng, Wai Hung 9840
Ngô Van Quê 14020
Nguen Zuĭ Tien 3788
Nguyễn Hoàng Phương 2105
Nguyen Huy Xuong 12560
Nguyễn Phuong Các 3155
Nguyen-Quang-Do Thong 7433
Nguyen Quoc Son 4252
Nguyen Thanh Van 8251
Nguyen Van Dao 3091, 13217
Nguyen van Ho 14063
Nguyen Van Than 3774
Nguyen Xuan Xanh 11576
Nica, D. 6612
Nicholson, W. K. 10333
Nickel, Karl L. 1594
Nickell, Stephen 4593
Nicoghossian, A. G. 4562
Nicola, M. 14702
Nicolai, H. 12012
Nicolaides, R. A. 1655
Nicolas, Anne-Marie 12746
Nicolas, Jean-Louis 257, 2571, 2604
Nicolau, Edmond ★9174
Nicolcheva, M. G. 8088
Nicolescu, Liviu 11223
Nicolescu, Miron *See* ★12456
Nicolet, M.-A. 6827
Nicoletti, G. 8434
Nicolis, G. 14690
Nicolo', Fernando 7064
Niculescu, Constantin P. 8283
Niederle, J. 10501
Niederreiter, H. 2612, 5132, ★7415, 7416, 10176
Niedokos, Edward ★3889
Nielsen, Børge P. D. 11414
Nielsen, Mogens 9178
Nielson, G. M. 13384
Niemi, Hannu 14074
Nieminen, Juhani 2349, 12586
Niessen, H. D. 10725, 10726
Niethammer, W. 1615
van Nieuwenhuizen, P. 6871, 14714, 14715
Nievergelt, E. ★12227
Nigam, A. K. 3994, 14256a-b
Nihoul, Jacques C. J. *See* ★14563
Niimura, Mikio 2974, 13084
Niino, Kiyoshi 3035
Niitsuma, Hiroshi 310
Nijenhuis, Albert 4998
Nikanorov, S. P. *See* ★2402
Nikišin, E. M. 3286, 10583
Nikišin, V. S. ★11901
Nikitin, Ja. Ju. 1472, 11642a-b
Nikitin, Ju. P. 7016
Nikitina, N. S. 4402
Nikolaev, M. L. 11484
Nikolaĭšvili, Š. S. 6836
Nikolaus, Johannes 5521
Nikolenko, Ĭ. V. 12287
Nikolenko, N. V. 6200
Nikolov, A. V. 9384
Nikolov, M. I. 9445
Nikol'skiĭ, M. S. 4702
Nikol'skiĭ, N. K. *See* 964
Nikol'skiĭ, S. M. 919. *See also* 12994
Nikonov, A. A. 3488
Nilsson, Nils J. 9190
Nimatov, H. 8186
Ninčak, Ja. 10064
Ninomiya, Nobuyuki 566
Nirenberg, L. 586, 1086, 1324. *See also* 15
Nishida, Fujio 7111
Nishida, Kenji 12831
Nishikawa, Yoshikazu 12333
Nishimura, Masafumi 6258
Nishimura, Toshio 7217
Nishino, F. 1815
Nishishiraho, Toshihiko 3244
Nishiura, Togo 519
Nishizeki, Takao 10084
Nisimov, E. R. 9433
Nisnevič, L. B. 6324
Nissimov, E. R. *See* Nisimov, E. R.
Niţă, Constantin 7542
Nitecki, Zbigniew 1308
Nitsche, J. 14399
Nitta, Shin-ichi 13847
Nitzan, Shmuel 4576

Nivat, Maurice 11861
See also 12421
Niven, Ivan 221
Niyogi, Ajay Kumar 13498
Nižaradze, G. V. 10571, 10572
Nižnik, L. P. 10897
Njock, G. E. 10371
N'jumen, M. G. A. *See* Newman, M. H. A.
N-Nagy, F. L. 2283, 4123
Nöbauer, Wilfried 2800, 10109
Nobile, Augusto 2661
Noblesse, F. 9329
Nobusawa, Nobuo 2840
Noda, Kazuo 14224
Noda, Tatsuo 12215
Noether, G. E. 8978
Noguchi, Junjiro 10680, 10681
Noguchi, Shoichi 6582, 9893
Nogura, Tsugunori 3642, 6085
Nohel, John A. 5773
Nohl, Craig R. 9419
Noiri, Takashi 8567, 13835
Noldus, Erik J. L. 12306
Nolin, L. 1700
Noll, Walter 11932
Nollau, Volker 1400, 11545a-b
Nomizu, Katsumi 11240
Nomura, Masao 1925
Nomura, Yasutoshi 6137, 8628
Noonan, J. W. 2943, 10593
Nooshin, H. 11942
Nordahl, Thomas 2847
Nordbrock, Earl 9002
Norden, A. P. 4902
Norden, R. H. 11588, 11589
Nordman, Hasse 1149
Nori, Madhav V. 5237
Noriega, Ricardo 13753
Norin, V. N. 6626
Norita, Sadataka 8804, 14230, 14286
Norman, C. W. 7282, 7651
Norman, M. Frank ★11522
Normann, Dag 102
Norris, Eugene M. 13830, 14890
Norton, Karl K. 7403
Nosač, V. V. 4788
Nosaki, Kazuhiro 4283
Nose, Kazuo 9777
Noskov, G. A. 12650
Nosov, V. N. 5849
Nourrigat, Jean 10905
Noussair, E. S. 7991, 13277
Novák, Břetislav 7413
Novak, G. A. 7627
Novák, Josef 11732
Novaro, Octavio ★4885
Novati, E. 9424
Novello, M. 4542, 6872
Novick, M. R. *See* 3939
Novickiĭ, A. I. 10403
Novickiĭ, O. N. 8429
Novikov, I. D. 6880
Novikov, P. S. *See* 10424
Novikov, S. G. 14183
Novikov, S. P. *See* 2383
Novikova, N. S. 3212, 8078
Novinger, W. P. 5818
Novodvorskiĭ, M. E. 239, 240. *See also* 10677
Novodvorsky, Mark E. 10146
Novogrudskaja, A. N. 12728
Novotný, M. 6575, 14458
Novokšenov, V. Ju. 8202
Novožilov, V. V. 11933. *See also* ★12425
Novožilova, T. P. 11195
Novruzbekov, I. G. 4662, 12216
Novruzov, A. A. 10847
Nowak, B. 5829
Nowak, Krzyztof. *See* ★3778
Nowak, S. 1157
Nowakowski, Ryszard 4868
Nowosad, P. 6006
Nowotarska, Małgorzata 3164
Noyola-Isgleas, Arturo 1888
Nozaki, A. 9876
Nummelin, Esa 11546
Nunemacher, Jeffrey 10670
van Nunen, J. A. E. E. 2215
Nur, H. S. 5570
Nuritdinov, Š. 9651
Nurminskiĭ, E. A. 1603
Nurubloev, M. 3179
Nussbaum, M. 1456
Nussbaumer, H. J. 7091, 12394
Nutfullin, Š. N. 8069
Nyberg, Anders M. 7201
Nymann, J. E. 12698

O

O, Chŏng Hyŏn 7284, 9877
Oakes, David 11564
Ôba, Yukio 8284
Obenchain, R. L. 8986
Oberhettinger, E. 3047
Oberhettinger, F. *See* 3040–3046, 4051–4054, 14304
Oberländer, Siegfried 11773
Oberlin, Daniel M. 3267, 3301, 8167
Obienu, E. U. 5800
Obolašvili, E. 10616
Obolenskiĭ, A. Ju. 11379
Obotnin, A. N. 4789
Obrecht, Enrico 7989
Obreja, George 6416, 11681
Obretenov, Apostol 4010, 12191, 14156
O'Brien, G. C. 10762
O'Brien, R. C. 13532
O'Brien, Richard C. 8235
Obrosov, I. I. 12362
Obuhov, V. È. 12395
Obuhovskiĭ, V. V. 3522
Obukhov, V. Ye. *See* Obuhov, V. È.
Obůrka, Oto 36
Očan, Ju. S. 8455, 8456
O'Carroll, L. 12934
O'Carroll, M. J. 11958
Ochiai, Takushiro 480, 13143. *See also* 18
Ochs, W. 4488, 4489, 14691
Ocken, Stanley 1255
Ockendon, H. ★9286
Oda, Nobuyuki 8630
Oda, Toshihide 12661
Odeh, R. E. *See* ★11721
Odekov, O. A. 4564
Odell, E. 11034
Odell, Garrett M. 9711
Odell, Patrick L. *See* ★11590
Oden, J. T. 1665, 4146, 14539
Odetti, Francesco 2669
Odlyzko, A. M. 8452, 12724
Odoni, R. 12709
Odoni, R. W. K. 12715
O'Donovan, T. M. 6935
Oellrich, Hayo 183
Oelschlägel, Dieter 1641
Oertel, Lothar 4809
Oettli, Karl Werner ★6956
O'Farrell, Anthony G. 520, 7793
Offir, Joseph D. 9736
Ofosu, J. B. 3922, 11630
Ogarkov, E. T. 5342
Ogarkov, T. T. 7438, 7439
Ogawa, Shigeyoshi 11502
Ogawara, Masami 8980
Ogden, R. W. 1826
Ogg, Andrew P. 5242
Ogieveckiĭ, I. I. 3314, 4236
Ogitsu, Noriko 13762
Ogiue, Koichi 5261
Ogus, Arthur 318, 10271
Oğuztoreli, Mehmet Namık 4139, 8199, 8200, 11011, 14807
Oharu, Shinnosuke 3501
Ohba, Fuminori 2196
Ohkohchi, Shigemi 13257
Ohmatsu, S. 9807
Ohmori, H. 5001
Ohmori, Katsushi 14413
Ohno, Katsuhisa 6951, 12215
Ohno, Yoshiki 5893
Ohnuki, Yoshio 12013
Ohsawa, Yukiharu 4283
Ohi, Takeo 306
Ohse, Dietrich 6942
Ohta, Masami 7389
Ohta, Tadayuki 4543
Ohya, Yujiro 10874
Ohyama, Yasuyoshi 7139
Oikawa, Masayuki 14616
Ôike, Hiroshi 13938
Oizumi, Juro 6582, 9893
Oja, È. 8217, 8218
Ojala, T. 10194
Ojanguren, Manuel ★5209, 12816
Oji, Akin 4049
Ok, Y. 1736
Oka, Masatoshi 13882
Oka, Shichirô 6140
Okamoto, Masashi 9036
Okamura, H. 4543
Okano, Hatsuo 11307
Okee, Jekeri 7209
Oksak, A. I. 14618
Øksendal, Bernt 11067
Oktaba, Wiktor ★3889, ★3976
Öktem, F. 12142
Okubo, Susumu 9385
Okubo, Tanjiro 8497
Okudžava, N. O. 6193
Okui, Shigehiko 7906
Okuma, Akimichi 3893
Okumura, Masafumi 1136, 6039, 6046, 13773
Okuno, Masahiro 4594
Okunskiĭ, M. D. 3470
Okuyama, Akihiro 1164, 11274
Olaru, E. 5053
Olbrot, Andrzej W. 12265
O'Leary, Thomas R. 9244
Olech, Czesław 8391
Olędzki, Juliusz 8625
Olegin, I. P. 11903
Oleĭnik, O. A. 29, 3148, 3163. *See also* 6, 7161
Oleĭnikov, B. I. 7098
Oleksiv, I. Ja. 1236
Olgaç, Nejat M. 7052
Ol'hovskiĭ, I. I. 12444
Ol'hovskiĭ, Ju. G. 1293
Olin, Robert F. 8338
Olive, D. 1917, 6757
de Oliveira, M. M. C. 8728
Oliver, D. R., Jr. 6680
Oliver, Robert 3730, 11369
Olkin, I. 1478, 14237
Ol'šaneckiĭ, M. A. 1755, 13999
Ol'šanskiĭ, A. Ju. 7562
Olsen, Anthony 6386
Olsen, Paul 2197a-c
Ol'ševskiĭ, Ja. 6600
Olshanetsky, M. A. *See* Ol'šaneckiĭ, M. A.
Olshen, Richard A. 6434
Olson, R. C. 6067
Olubummo, A. 10474
Olunloyo, V. O. S. 14400
Olver, F. W. J. 13238. *See also* ★12426
O'Malley, R. E., Jr. 3534, 5568, 8405, 8411
O'Malley, Richard J. ★5405, 12997
Omanadze, R. Š. 4944
Omatu, S. 2313, 7076
Omodei, B. J. 13697
Omote, Minoru 12013
Omura, Jim K. 9853
Omuraliev, A. S. 5765–5767
Ó Murchadha, N. 4553, 12117
Onaga, Kenji 6918
Onciulencu, I. 10793
Onegov, L. A. 10959
Ong, Piet Tjing 14603
Onicescu, Octav 6218, 6310, 6311, ★6828, ★12435
Oniščuk, N. M. 5990
Onley, D. S. 14604
Ono, Hiroaki 5649, 14550
Ono, Hiroakira 2428
Onishi, Hironori 10215
Ono, Masahiko 4758
Ôno, Takeshi 7735, 8254
Ono, Tokuro 13856
Onofri, Enrico 14613
Onose, Hiroshi 684, 3136, 5586, 13260 10804–10806
Onuchic, L. R. 13228
Onuchic, N. 13228
Onufrieva, F. P. 6838
Onuki, Akira 9536
Onuki, Mieko 7425
Oodaira, H. 8834
Ooishi, Akira 10234
Oono, Yoshitsugu 6799
Oort, Frans 12771
Opawski, A. 14290
Opderbeck, Holger 9194
Opeĭko, F. A. ★4219
Openshaw, S. *See* 1529
Opoĭcev, V. I. 8605
Oppen, Derek C. 4187
Oppezzi, Pirro 8012, 13303
Opricovič, S. *See* 2138
Oprişan, G. 1391, 8874
Orava, P. J. 6512, 12259
Orazov, M. B. 3463, 3464
Ord, J. K. 1529
Ord, Keith 1507
Orden, A. *See* 2138
Orehora, N. S. 8484
O'Reilly, Federico J. 3986
Oren, S. S. 12217, 12218, 14370
Oresme, Nicole *See* ★12437
Orevkov, V. P. *See* ★7190
Orgler, Yair E. *See* ★2161, ★2162
Orlik, Peter ★13950
Orlov, K. 1616
Orlov, S. A. 13625
Orlov, V. S. 9260
Orlova, G. I. 9663
Orłowski, K. 6963, 12241
Ornstein, Donald S. 512. *See also* 20
Orsi, Renzo 14298
Ortega, James M. *See* 4158
Ortega Aramburu, Joaquin M.[a] 8297
Ortel, M. 13074
Osadčiĭ, M. M. 3419
Osaki, Shunji 4616, 12196
Osborne, M. R. 1713
Osetinskiĭ, N. I. *See* ★12941
Osgood, Charles F. 6467
Osher, S. J. 738
Oshima, Hideaki 6134
Oshima, Toshio 8749
Oshiro, Kiyoichi 10229
Oshobi, E. O. 11062, 13568
Osias, J. R. *See* ★9283
Osidze, A. G. 11698
Osilenker, B. P. 3276
Osipov, Ju. S. 8724, 9700
Osipov, L. V. 8811
Osipov, V. M. 9782
Oskolkov, A. P. 14551. *See also* 22
Oskolkov, K. I. 833
Oŝman, E. V. 11035a-b
Osnes, E. 12044
Ossicini, Alessandro 8125
Ostapko, D. L. 12384
Ostebee, A. 4368
Osterwalder, Konrad 4412
Osterweil, Leon J. 14427
Ostianu, N. M. 11191, 13775
Ostling, Ed 3347
Ostrom, T. G. *See* 13716
Ostroverhiĭ, M. O. 10056–10059
Ostrovskiĭ, G. M. 11141
Ostrovskiĭ, I. V. 549
Ostrowski, A. M. 282, 10220
Ostrowski, Roman *See* ★4876
O'Sullivan, John J. 6194
O'Sullivan, P. 2019
Oswald, J. 12369a-b
Osyczka, A. 12221
Otelbaev, M. 5825, 5907, 8260, 10738, 13196

Othmezuri, G. L. ★9189
Otraševs'ka, V. V. 338
Otsuki, Tominosuke 8717
Otterson, P. 1934
den Ouden, L. W. J. 4474, 12089
Outa, Mitsuo 6258
Ovčarenko, V. P. 14663
Ovčinnikov, I. S. 5471
Ovčinnikov, S. V. *See* ★5057
Ovčinnikov, V. A. 4671
Ovčinnikov, V. I. 13979
Ovčinnikov, V. M. 11192
Ovčinnikova, S. N. 9324
Ovečkin, A. I. 5991
Ovenden, M. W. *See* 7157
Ovseevič, A. I. 278
Ovsepjan, S. G. 1169, 6089, 6091, 8575
Ovsjannikov, L. V. *See* 6
Ow, Wellington H. 5487
Owen, D. B. *See* ★11721
Owen, G. 4693
Owen, W. S. 456
Owens, P. J. 7285
Owicki, Susan 1701
Oxtoby, John C. 6833
van Oystaeyen, F. 5285, ★7518, 10380, 12815, 12837
Ozawa, Mitsuru 5466, 7782
Özdamar, E. 8459
Ozeki, Kazuhiko 4874, 9757
Ozernoĭ, V. M. 2139
Oziewicz, Zbigniew 9457

P

Paccanoni, F. 1954
Pace, J. Wayne 11084
Pačeva, S. I. 9433
Pachpatte, B. G. 1388, 8062, 8197, 10722, 13183
Pachter, M. 7042
Pack, James D. 6837
Pačulia, N. L. 10964
Padberg, Manfred W. 2487, 2685, 5020
Padgett, W. J. 6281, 11431, 11503, ★14060, 14103
Paditz, Ludwig 14041
Padula, Mariarosaria 14552
Pagani, Carlo 3161
Page, E. 6917
Page, J. A. 4770
Page, Warren 908
Pagli, Linda 2505
Pahlings, Herbert 7600
Pai, D. V. 3366
Pai, M. A. 7065
Paillet, Jean-Luc 12514
Pair, C. 4201, 11862
Paiva-Veretennicoff, L. 4286, 9528
Pak, Eulyong *See* Bark, Oul Yong
Pak, Jingyal 8616
Pak, Jin Suk 13787
Pakes, A. G. 6287
Pal, M. 7726
Pal, T. K. 1197
Paladhi, Basudeb Ray 7943
Palamodov, V. P. 8745, 13139
Palej, Marian 2390, 13715
Palev, Č. D. 9386, 9486
Palev, T. 9387
Palis, Jacob 1301
Palit, A. 14888
Paliwal, D. D. 3054
Paljutin, E. A. 4948
Palla, L. 9483
Pallu de la Barrière, Philippe 3025
Palmeira, Carlos Frederico B. 13933
Palmore, Julian I. 1760, 1761, 8725
Palmquist, P. H. 7580
Pan, K. C. 4098a-b
Panagiotopoulos, P. D. 1829, 14525
Panaitescu, Valeriu 4300
Panasovič, V. O. 1557
Pancenkov, A. N. *See* ★1831
Panda, H. K. 9582
Panda, R. 7886, 7902
Panday, Ramesh Chandra 4544
Pande, H. D. 1119, 3612, 8506, 8507, 13768
Pandey, H. B. 1125
Pandey, J. P. 8507
Pandey, S. N. 2106, 12143
Pandikow, W. 777
Pandolfi, L. 7060, 13690
Pandrea, N. 6612
Pandya, Gautam N. 7656
Panejah, B. P. *See* 7161
Pani, G. 8485
Pankov, A. A. 3741, 6124, 8387
Pannone, Maria A. 174
Panov, A. A. 5015
Pant, D. N. 6856
Pantazi, Alexandru *See* Mihoc, Gh. 9945
Pantev, N. 12318
Pao, C. V. 5628, 6801, 10862
Pap, Endre 3198
Papaconstantinou, C. 6473
Papadimitriou, Christos H. 4613
Papamichael, N. 1672
Papanicolaou, George C. 1382, 1893
Papantoni-Kazakos, P. 8966, 12319
Papick, Ira J. 5212
Papini, Pier Luigi 13543
Papoulis, Athanasios 14862
Papousek, W. 1881, 1882
Papp, E. 9460
Papuc, Dan I. ★6177
Parasher, V. K. 10922a-b
Paraskevopoulos, P. N. 7019, 7025, 7026, 14825
Paraskov, Cvetan N. 6602
Pardon, William 12859
Parenti, C. 14619
Parida, J. 2212
Parihar, C. L. 7896
Parimala, S. 7448, 7469
Parin, William 14092
Paris, J. B. 7264
Park, Hong Suh 11241
Park, Jong Geun 2703
Park, Jong Goo 14754
Park, Seung Ahn 5365
Park, Yong Moon 6758
Parkash, Om 12048
Parker, E. T. 12545
Parker, J. R. 5360
Parks, James M. 1209
Parks, P. C. 1058
Parmenter, M. M. 5289
Parr, F. N. 4869
Parring, A. H. 14247
Parry, Charles J. 10195, 10199
Parshall, Brian 2826
Paršin, A. N. 7479. *See also* 6, 43, 2408
Parson, L. Alayne 241
Parsons, Charles 4914
Parsons, T. D. 2526
Parthasarathy, K. R. 7706, 9494, 12579. *See also* 8818
Parthasarathy, R. 1562
Parthasarathy, T. ★5420, 6966
Parton, V. *See* ★1766, ★1767
Parzen, Emanuel 9022
Pascal, Madeleine 9213, 11891
de Pascale, E. 5919
Paschke, William L. 8308
Pasciutti, F. 1617
Pašenkov, V. V. 8558
Paškova, T. V. 5816
Pasquali, A. 6510
Passow, Eli 5674, 10950
Pastrick, Harold L. 14852
Pastur, L. A. 10893
Pasynkov, B. A. 6104
Patani, A. 2021
Patašinskiĭ, A. Z. ★12096
Pate, M. B. 14277. *See also* 14278
Patel, A. M. 9841
Patel, B. G. 7370
Patel, C. M. 13444, 13451
Patel, Jagdish K. 11707
Patel, L. K. 9553
Patel, L. M. 1118
Patel, R. K. 13451
Patel, R. V. 4748, 9752, 9760, 9761
Patel, S. M. 13609
Patera, J. 1924, 2891
Paterson, M. S. 2350, 11849
Pathak, P. K. 1431
Pathak, R. S. 3309, 3312, 8181
Pathan, M. A. 13159
Pathria, R. K. 4496
Patil, G. P. 1411, 6345
Patil, K. B. 5304
Patil, S. A. 3915, 14289
Patodi, V. K. 11417
Patrick, Merrell L. 9075. *See also* 4050
Patrinos, A. N. 2507, 2546
Pattanaik, Prasanta K. 9607, 14746
Patterson, S. J. 7385, 10151, 10152, 13072
Patula, W. T. 3072, 13211
Pau, L. F. 2235
Paul, R. J. 6917
Paul, Siegfried 4890
Paul, Wolfgang J. 4840
Paulauskas, V. I. 8777, 11432, 11433
Paulauskas, V. J. 6227
Pauli, Vol'fgang ★2404
Paulos, John 88
Paulson, A. S. 11635
Păun, Gheorghe 9165
Pavel, N. 8373, 8374
Pavelka, Jan 2755
Pavlić, I. 7736
Pavlidis, Theodosios 6456
Pavljuk, I. I. 10417
Pavlockiĭ, I. P. 9554
Pavlov, A. I. 2484
Pavlov, A. P. 4153
Pavlov, B. S. 3459, 13611
Pavlov, B. V. 6509
Pavlov, E. A. 11111
Pavlov, K. B. ★9316, 9317
Pavlov, N. V. 4064
Pavlov, V. V. 12395
Pawelski, W. 10765
Pawley, Richard G. *See* 12422
Pawłowski, Zbigniew 8975
Payan, C. 5027
Payne, Lawrence E. 697, 752, ★9249
Payne, Robert L. 9758
Payne, S. E. 7290a-b
Payne, Thomas H. 4946
Paz, A. 11856
Pázman, Andrej 8995, 8996, 11677
Pazy, A. 13659
Pčelincev, S. V. 10352, 10365, 10366
Pchenitchny, B. N. *See* Pšeničnyĭ, B. N.
Peacock, R. M. 2777, 12880
Peák, I. 441
Peano, Giusseppe *See* 12439
Pearce, C. E. M. 12811
Pearcy, Carl 8321
Pearl, Judea 9154, 12344, 12345, 12348
Pearson, A. E. 7033
Pearson, B. J. 6098
Pearson, D. B. 8050
Peay, Edmund R. 7002
Peccati, Lorenzo 6228
Pečerskiĭ, E. A. 3789
Pecher, Hartmut 10858, 10866
Pechlaner, Edgar 2079
Pechukas, Philip 4396
Pečnikov, I. A. 8464, 13961
Pedemonte, Luisa 13471
Pedersen, Franklin D. 12929
Pedersen, Gert K. 948, 13579
Pedersen, J. G. ★14171
Pedoe, Dan 2381 ★2673
Peek, J. B. H. 12295
Peel, M. H. 392
Peetre, J. 8269, 13590
Peirce, C. S. *See* 7185
Pekarev, È. L. 3448
Pekelman, Dov 9646
Pelczar, A. 660, 661, 3673, 5553
Pełczyński, A. 988, 8253, 13541
Peleg, Bezalel 2145, 9621b
Pelešenko, B. I. 1027
Peletier, L. A. 5622, 10853, 13281
Pelikán, J. 5026
Pelissier, M. C. 9252
Peljuh, G. P. 771
Pellaumail, J. 8862
Pellegrino, Consolato 7572
Pelletier, Donald H. 7268
Pelletier, Joan Wick 5857
Peluso, R. I. 13376
Pelyh, V. A. 1099
Peñafiel N., M. 4376
Penaud, J. G. 2512
Pendl, A. 11199
Peng, T. A. 2819
Peng-Nung, Ng 5894
Penkov, B. I. 3958
Penner, Sidney 5080
Penney, Richard 12979
Pepe, L. 8415, 8416
Pepe, W. D. 5746
Perchik, James 13930
Perdang, J. 9596
Peregudov, S. A. 11280
Perel'man, M. E. 9434
Perelomov, A. M. 1325, 1755, 13999
Peremans, W. ★5081
Perepelica, V. A. 9660
Peretjat'kin, M. G. 7243
Pérez, Jesús H. 7441
Pérez Carreras, P. 881, 8205
Pergel, József 11477, 14023, 14024
Perin, David 10195
Perjés, Zoltán 9583
Perk, J. H. H. 4474, 12089
Perko, L. M. 9219
Perlis, Robert 10214
Perlman, Michael D. 1477, 1478
Perng, S. K. 8955
Perng, S. S. 14271
Perrakis, Stylianos 2143, 3881, 14755
Perreault, D. A. 4838
Perrin, Henri 12092
Perrin, M. 1915
Perrizo, William 13882, 13883
Perrot, J.-F. 10462
Perroud, M. 14598
Persidskiĭ, K. P. ★7182
Persson, L.-E. 10965
Peruggi, Fulvio 14682
Pervin, William J. 8584
Pervozvanskiĭ, A. A. 4790, 9741
Perzyna, P. 1827, 1828, 9273, 9274, 14576
Pesin, Ja. B. 6201
Peskin, Charles S. ★2239
Pesočinskiĭ, L. L. 3991
Peteanu, Vasile 10075
Peters, C. A. M. 7492
Peters, Justin 8166
Petersen, G. M. 8077, 10538
Peterson, Allan C. 3088, 5530
Peterson, Bruce *See* 12422
Peterson, David W. 9623
Peterson, F. P. 8678
Peterson, Gary L. 385
Peterson, Roger D. 10322
Petit, Jean-Pierre 9522
Petitfrère, Marianne 9693
Petith, Howard C. 4595
Petkov, I. Ž. 9445
Petkov, Evstati 14157
Petkov, Veselin M. 743, 3175
Petkova, Stanislava V. 1200
Petkova, V. B. 9476a-b
Petrauskas, A. K. 14600
Petrenko, V. P. 3008
Petrich, Mario 12935
Petrickovič, V. M. 335, 336
Petridis, N. C. 13814
Petrie, C. J. S. 7974
Petrie, Ted 6175
Petrosjan, A. V. 7130
Petrov, A. G. 9287
Petrov, B. N. 7007
Petrov, V. V. 8392, 14061

Petrovanu, Dan *See* 7995
Petrovič, A. Ju. 13442
Petrovskii, I. G. *See* 689, ★7161, 9959
Petru, Carol 2492, 2493a-b
Petrushev, P. P. 13403
Petry, Walter 2080
Petsoulas, A. G. 11012
Pettitt, A. N. 1473
Pettitt, R. B. 6791
Pettitt, R. Bruce 1130, 8528
Petunin, Ju. I. 960, 1446, 9013, 13010, 13520, 14803
Peyerimhoff, A. 780
Peyret, R. 9343
Peyrière, Jacques 8138
Pezzana, Mario 13918, 13919. *See also* 8457
Pfaffelhuber, Ernst 2351, 9804
Pfaffenberger, W. E. ★3434
Pfaltz, John L. 2547
Pfanzagl, J. 3933, ★5057
Pfeffer, W. F. 10545
Pfeiffer, H. 2431, ★7212
Pfender, M. 14453
Pfister, Albrecht 12638, 12639
Pfister, Helmut 5777
Pflug, Rolf Peter ★7860
Pfluger, Albert 5455
Pham, Frédéric 1968
Pham Dang Tuan 1816
Pham Phu Hien 513
Pham The Lai 753, 754, 10894
Phan Dinh Diệu 2365
Phares, Alain J. 11820
Phelps, Kevin T. 10041
Phelps, R. *See* 19
Philippidès, Daniel *See* 9927
Philippin, Gérard A. 13338
Phillips, G. M. 815
Phillips, Ralph S. 758, 11077. *See also* 14
Philos, Ch. G. 5537
Piacentini Cattaneo, Giulia Maria 10364
Pian, Theodore H. H. 1666
Piasecki, J. 9514
Picard, Rainer 11987
Picasso, Ettore *See* 8457
Picca, D. 4405
Piccard, Sophie 2812
Piccinini, Renzo A. ★8608, 8613. *See also* ★6121
Piccoli, Alessandra 7183
Pichaud, Joëlle 2873
Pichler, F. 2288, 2289, ★7010. *See also* ★4731
Pichorides, S. K. 7398
Pick, Štěpán 14605
Pickands, James, III 11642
Pickard, D. K. 11626
Pickel, P. F. 5350
Pickert, Günter 1076
Pidgaĭko, A. I. 8073
Pidkuĭko, S. I. 10800
Pidstrigač, Ja. S. 1797
Piech, M. Ann 4429
Piehler, Joachim 2192, 4644, 4645
Piechocki, W. 9265
Pierce, J. G. 9669. 9040
Pieri, Jean-François 5292a-b
Pierre, D. A. 2231
Pierre, Michel 5911
Pierre, R. 488
Pierskalla, William P. 2164
Piessens, R. 1547, 1558, 14321
Piest, J. 1866
Pietrzykowski, Jerzy *See* ★1770, ★1772
Pietsch, Albrecht 954
Pigno, Louis 7373, 8161, 10979
de Pillis, J. 4075, 11749
Pil′tjaĭ, G. Z. 2607
Pimbley, George H., Jr. 13220
Pimenov, M. V. 10274
Pinborg, Jan ★7188
Pinchon, Didier 10565
Pincus, J. D. 8337
Pinkus, Allan 13425
Pinski, K. 3987
Pinsky, Marc 8896, 10900
Pinter, Charles 7250
Pintér, L. 10770
Pinus, A. G. 4956
Piontkovskiĭ, A. A. 9622
Piper, Fred 10049
Pipkin, A. C. 2921
Pippenger, Nicholas 7131
Piranašvili, Z. A. 11480
Pirdžanov, B. 1398
Piret, Philippe 4815
Pirgov, D. T. 5170
Piriou, Alain 3514. *See also* 20
Pirmatov, Š. 11947
Pirogov, S. A. 7751
Piro Grimaldi, A. 11805
Piróg-Rzepecka, Krystyna 2414, 7200
Piron, C. 1906
Pironneau, Olivier 6521, 11969
Pisanelli, Domingos 8288, 10647
Pisarenko, G. S. *See* ★12463
Pisarenok, V. P. 13179
Pisarewska, Helena 6346
Pisier, G. 3367, 11040, 11429
Pismen, L. M. 2067
Pistone, Giovanni 8866
Pitman, J. W. 3854
Pittel, B. G. 8923
Pittnauer, F. 10608
Pitts, C. G. C. 667
Pitts, Jon T. 11153
Pizer, Arnold 10154
Piziak, Robert 7339
Pjateckiĭ-Šapiro, I. I. 239, 240
Plachky, Detlef ★1329, 7729
Plackett, R. L. *See* 3939
Plafker, Stephen 11101
Plamenevskiĭ, B. A. 719
Planchard, J. 11992
Plante, André 3934. *See also* 11595
Plátek, M. 14459
Platonov, V. *See* ★1766, ★1767
Platonov, V. A. 14307
Platonov, V. P. 355, 472, 10328a-b, 10433, 12830
Platzman, L. K. 9819
Platzöder, L. 6478
Plaumann, Peter 12959
Plaut, R. H. 9253
Plavšić, M. 14527
Please, N. W. 11662
Plebanski, J. F. 6873, 13754, 14716, 14729
Plečko, V. N. 6813
Pledger, Gordon 14219
Pleijel, Åke 10727
Plemmons, R. J. 7673
Plesník, Ján 10076
Pless, Vera 2766
Plesset, Milton S. 6984
du Plessis, Andrew 1284
Pletjuhov, V. A. 6739
Pletn′ova, T. G. 3162
Plisko, V. E. 2433
Pljako, D. A. 11131
Plotkin, B. I. 2804, 12897
Pluta, Wiesław 11671
Plyako, D. A. *See* Pljako, D. A.
Plymen, R. J. 3578, 7707
Plyševskaja, T. K. 3472, 3473
Pobedin, L. N. 12508
Pobedrja, B. E. ★9232
Podolak, E. 13651
Podolski, Horst 6348
Podowski, M. 5774
Podstrigač, Ja. S. *See* Pidstrigač, Ja. S.
Podsypanin, E. V. *See* 9
Podufalov, N. D. 7607
Poe, Arthur 4992
Poenaru, Valentin 3722, ★13976a-d, 13977
Poffyn, A. 4445
Pogány, Csaba 9685
Pogorelov, A. V. 8535. *See also* 6
Pogorzelski, R. J. 6690
Pogosjan, I. A. 6325
Pogu, Marc 1837, 9278
Poguntke, Detlev 12960, 12961
Poh, K. S. 10093
Pohjavirta, Armo 12301
Pohl, Hans Werner 14460
Pohle, F. V. *See* 4896
Pohlers, W. 4929
Pohodzilo, P. V. *See* ★9919, ★9920
Pohst, Michael 10198
Poizat, Bruno 10006, 10007
Pokazeev, V. I. 2984, 2985
Pokhariyal, G. P. 13757, 14730
Pokornyĭ, Ju. V. 3523
Pokrovskiĭ, V. L. ★12096
Pol, E. *See* Puzio-Pol, E.
Pol, R. 1186, 8594, 11266
Polak, E. 13687, 14352, 14786
Polak, S. J. 9102
Polcino Milies, Francisco César 386, 2773
Polec′kih, V. M. 2869
Poleščuk, V. S. 3809
Polesja, I. V. 10748
Polge, R. J. 4179
Polimeni, Albert D. 7309
Polin, A. K. 6307
Poliščuk, E. M. 11098
Poliščuk, R. F. 2107, 4545, 14731
Poliščuk, V. M. 687
Poliščuk, V. S. 3812
Poljahov, N. N. 4897
Poljak, D. G. 6326, 6919
Poljakov, R. V. 9210
Poljakov, V. E. 7132
Pollard, David 3382
Pollard, J. M. 7099
Poly, J.-B. 13138
Polyak, B. T. *See* 13
Polyak, D. G. *See* Poljak, D. G.
Pomeranceva, L. I. 321
Pommerenke, Ch. 2954, 2955, 7786
Pompilj, Giuseppe ★1327, ★1328
Pomponiu, C. 4408
Ponomarenko, L. L. 11498
Ponomarenko, O. T. 3834, 9023
Ponomarev, Paul 242, 2618
Ponomarev, V. N. 12111
Ponssard, Jean-Pierre 11597
Pontrjagin, L. S. *See* 6
Pooch, Udo W. *See* ★11827
Poore, A. B. 9508
Pop, G. 2185
Pop, Ioan 4301, 8619
Popa, Valeriu 1162, 8583
Popeea, C. 10297
Popelar, C. H. 4268
Popescu, Dragoş 116
Popescu, Gh. 1342, 3810
Popescu, Hristache 12457
Popescu, M. 13758
Popescu, Nicolae 10308
Popescu, V. 8397
Popivanov, Nedju I. 5642, 10824
Popoola, J. O. 8212
Popov, A. M. 12971
Popov, A. V. 4313
Popov, B. A. 1545, 8108, 13416
Popov, D. A. 4302
Popov, E. P. ★7038
Popov, G. Ja. 6632
Popov, Ju. D. 14075
Popov, Ju. I. 13744
Popov, M. M. *See* ★14569
Popov, S. V. 9972
Popov, V. A. 7744, 13391, 13417
Popov, V. B. 7907
Popov, V. Ju. 13432
Popov, V. L. 5255, 7489
Popov, V. S. 9469, 14614
Popov, V. M. 13668, 14844
Popov, V. V. 3644
Popov, Vasil A. 809, 831
Popovici, Constantin Γ. 12396
Popovici, Iulian 13809–13811
Popp, Herbert 2653
Pop-Stojanović, Zoran R. 6267
Porath, Günter 13495, 13509
Porcelli, Pasquale 5888
Poreda, Tadeusz 13058
Porkolab, Miklos 14658
Porsching, T. A. 11976a. *See also* 11976b
Poršneva, E. F. ★2370
Port, Sidney C. 6247
Porta, Horacio 5903
Portenko, N. I. 14126
Porter, A. Duane 2689
Porter, B. 2286, 7027, 14841
Porter, J. F. 5788
Porter, J. W. 7412
Porter, Timothy 10378, 12856
Porter, William A. 4751, 4753
Portnov-Sokolov, Ju. P. 7007
Portnow, J. 6829
Pospelov, D. A. ★4875, ★4876
Pospelov, V. V. 9088
Pospiełow, D. A. *See* Pospelov, D. A.
Postelnicu, Tiberiu 9721
Posthoff, Ch. 12475
Postnikov, A. G. 12686
Potapov, M. K. 3251
Potepun, L. I. 911
Potkin, V. V. 1874
Potter, James E. 14373
Pottinger, Peter 3259
Potts, R. B. 12811
Potts, Timothy C. *See* 7193
Poulain, M. 2017
Pourchet, Yves 12732
Poushkarov, Ch. I. *See* Puškarov, C. I.
Pousse, Alain 3975
Povzner, A. Ja. 6509
Powell, Barry 221
Powell, M. J. D. 14371
Powell, William C. 4978
Powers, David L. 7028, 14341
Powers, Robert T. 6830, 14680
Poyatos Suárez, Francisco 10346
Požarickiĭ, G. K. 6974
Pozin, S. M. 10714
Poznjak, È. G. *See* 9
van Praag, Paul 291
Prabhu, S. S. 11748
Prabhu, Swarnalata ★1532
Prabhakar Ram, R. K. 4303
Prachar, K. 254
de la Pradelle, Arnaud 7820
Pradhan, Anirudh 4512
Pradhan, Dhiraj K. 9878, 9879
Pradhan, K. M. 3052
Pradhan, Meena 3921
Pradhan, T. 1974
Pradines, Jean 1254. *See also* 8457
Praeger, Cheryl E. 7595, 12918
Prajapat, M. L. 8183
Prajneshu 1383
Prakasa Rao, B. L. S. 8805, 11504, 14101
Prakash, Anand 11262
Prakash, Hari 12068
Pranger, Walter 8447
Prasad, B. A. 7133
Prasad, B. N. 13769
Prasad, J. 8082
Prasad, K. Krishna 4333
Prasad, Phoolan 14567
Prasad, R. M. 12320
Prasad, Y. N. 13486
Pratelli, Maurizio 11489
Pratt, John W. 3945. *See also* 3944
Prawitz, Dag 7218. *See also* 4913
Predvoditelev, A. S. ★9223
Preiskorn, A. 1939
Prékopa, A. *See* ★2138
Prelati, G. P. 4467
Prem Prakash 13831
Premuda, F. 14669
Prenter, P. M. 14404
Preparata, Franco P. 6555, 11848
Prescott, P. 8950

Presdorf, Z. *See* Prößdorf, S.
Prešič, Slaviša B. 4921
Prešnajder, P. 1932
Press, S. James ★8979
Press, William H. ★6847
Preston, G. B. 2848, 12936
Priber, Ulrich 6286
Price, J. J. 845, 3277
Price, Richard H. ★6847
Priddy, Stewart B. 1212
Priemer, R. 11785
Priest, Dean B. 5400
Priestley, W. M. 5127
Prigozy, Stephen 9880
Prikry, Karel 4989a-b
Primc, M. 5394
Privalov, A. A. 8083, 10929
Prjažinskaja, V. G. 4318
Procenko, V. S. 9242
Procesi, Claudio 7511, 7512, 10305
Procházka, Petr 1662
Prochnow, Dieter 1702
Proctor, T. G. 5559
Prodanov, Ivan 449
Prodi, G. 6192
Profke, L. ★1064
Prohorov, Ju. V. 8812. *See also* ★2470
Prohorova, R. A. 3107, 5560
Proĭnov, P. D. 5154
Prokopcev, S. F. 7766
Prokop'ev, V. P. 662
Prolla, João B. 11386
Propes, R. E. 10315
Propin, R. H. 9407
Prosnak, W. J. *See* ★14543
Proschan, Frank 5409, 6429
Prößdorf, S. 9121. *See also* ★11882
Proskurina, R. G. 5961, 11163
Proskurowski, Włodzimierz 9107
Prosperetti, Andrea 1861
Protasov, A. V. 4498
Proto, R. C. 285. *See also* 286
Protopopova, O. I. 5990
Protter, Philip 14087
Prouza, Ludvík 5890, 9015
Prozorovskaja, O. I. 13629
Prugovečki, Eduard 2026, 4389, 4390, 6775
Prusakova, A. I. 11196, 11197
Prusker, F. 4178
Prutkovskiĭ, A. S. *See* 22
Przelęcki, Marian 7195
Przeworska-Rolewicz, Danuta ★963, 975
Przybycin, Zygmunt 11565
Przymusiński, T. 3652, 6079, 13845
Pšeničynyĭ, B. N. 2232, 3547. *See also* ★9919, ★9920
Pták, Pavel 6080
Pták, Vlastimil 3353
Ptašnik, B. I. 747
Ptičkin, V. A. 12346
Pu, Huan Wên 483
Pu, Hui Min 483
Pucci, Carlo 8006
Púchovský, František 9948, 13175
Puczyłowski, E. R. 2719
Pufter, G. 12928
Pugh, A. C. 9753
Puhov, G. E. *See* ★9828, ★9919, ★9920
Pukanszky, L. 10502, 10503
Pulatov, A. I. 834
Pulleyblank, W. R. 7286
Pullman, Norman J. 10065
Pultr, Aleš 4986
Purcaru, Ion 2336
Purdom, Seaton D. 8345
Purdue, Peter 11566
Puri, P. D. 3994
Puri, Prem S. 4709
Puškarov, C. I. 1978
Pusterla, M. 9500
Pustovoĭtov, M. O. 5565
Pustyl'nikov, L. M. 12289
Pusz, W. 8316
Putcha, Mohan S. 5377, 12842
Putnam, Hilary 7232
Puzio-Pol, E. 11299, 13878
Pyh, Ju. A. 13223
Pyhteev, G. N. 4360
Pyle, L. D. 2183, 14775
Pyt'ev, Ju. P. 4213

Q

Qadir, Asghar 1926
Quackenbush, Robert W. 12946
Quartapelle, L. 2778a-b
Quentrec, B. 9321
Querre, J. 2638, 12751
Quesada Paloma, Vicente 11592, 14177
Quesenberry, C. P. 14201
Quesne, C. 1927
Quigley, J. Brendan 1219
Quillen, Daniel 10382
Quine, J. R. 7761, 13935
Quine, W. V. *See* 2430
Quinn, D. W. 2995
Quinn, J. 8549
Quintana, R. B., Jr. 2820, 12909
Quiring, Donald 2916
Quisquater, Jean-Jacques 7119

R

Raab, Johanna *See* ★2410
Raasch, Ingo 1817
Ráb, Miloš 643
von Rabenau, Burkhard 9624
Rabin, Michael O. 9191, 12512
Rabinovič, E. B. 2772
Rabinovič, M. G. 193
Rabinovič, V. S. 13306
Rabinovič, Z. L. *See* ★9919, ★9920
Rabinovich, Issie 5059
Rabinowitz, Stanley 12637
Raboin, Pierre 6181
Rabotjagov, D. D. ★4255
Rabotnov, Ju. N. *See* ★12425
Raby, Gilles 7838
Raca, M. F. 68
Rachúnek, J. 7351
Rachůnková, Irena 13225
Racine, M. L. 5303, 5304
Rackoff, Charles 4957
Rączka, R. 4410, 4430
Radčenko, V. E. 6776
Radcliffe, J. 6308, 9732
Råde, L. 3872, 11438
Radeş, Mircea ★4217
Radicati, L. A. 4556
Radjabalipour, M. 11079
Radjavi, Heydar 969, 2686, 3433, 5850, 11079
Radkevič, E. V. *See* 7161
Radner, Roy 4577, 4578, 9634
Rado, R. 2469, 10022
Radovskiĭ, V. D. 808
Radu, Alexandru 10381
Radu, Nicolae 5236
Radu, Viorel 3666
Radžabov, A. 11683
Radžabov, E. L. 1028
Radžabov, N. 760, 8010
Radzīevs'kiĭ, G. V. 3465 8329
Radzik, T. 6963, 12241
Rae, Andrew 2793
Rafter, J. A. 6401
Raghavan, S. 2594, 10155
Raghavan, T. E. S. 6966
Raghavarao, D. 6402, 11603
Raghavendra, V. 5567
Raghunathan, M. S. 5389, 12978
Ragimhanov, R. K. 3515, 5762
Ragimov, M. B. 5661, 8201
Ragnisco, O. 14612
Rahilly, Alan 12718
Rahim, M. A. 11672
Rahimov, G. M. 1513, 6426
Rahman, Mushfiqur 9842
Rahman, Q. I. 488, 13040, 13380
Rai, S. N. 965
Raĭbman, N. S. 14822
Raĭčev, P. 9393
Raĭcin, R. A. 8121
Raĭh, L. M. 3490
Raĭkin, A. L. ★12190
Raimondi, T. 4744, 9072
Raina, R. K. 13171
Raine, D. J. 12022
Raj, Baldev 9033
Rajagopal, A. K. *See* 6831
Rajagopal, C. T. 788, 3215
Rajagopalan, M. 3360, 5381, 8566, 10474
Rajlich, Václav 9179
Rajput, B. S. 12048
Rajput, Balram S. 8773
Raju, G. V. S. 2294
Raju, Nambury S. 12705
Rakotch, E. 1684
Raktoe, B. L. 6405, 6406
Ralston, J. V. 14003
Ram, Babu 835
Ram, Rishi 4304
Ramachandra, K. 252, 12682
Ramadanov, Ivan-Pierre 603
Ramalho, Margarita 7559
Ramalho, R. 8331
Rama Mohana Rao, M. 5567, 14101
Ramamoorthy, C. V. 1703, 2179
Ramana Murty, P. V. 12592
Ramanan, S. 12777
Ramanathan, G. V. 6809
Ramankulov, S. 3334
Ramanujan, Melapalayam S. 989, ★8229
Ramasanov, Marat 920
Rama Sastry, M. V. ★6379
Ramaswami, S. 8145
Ramazanov, M. D. 13420
Rambaud, Christiane 9983, 10004
Ram, Behari 1122
Rameswar Rao, D. ★10139
Ram Hit 3613, 6021
Ramis, Jean-Pierre 10658
Ramm, A. G. 3341, 10830
Ramond, P. 9388
Ramsey, James B. 1528
Ramshaw, John D. 4330
Rand, David 2154
Randall, C. H. 4491, 4492
Randall, Duane 3697
Randell, Richard C. 1270
Randić, Milan 5036
Randles, Ronald H. 11647
Randon, Denis 8982
Rangel, Jose Lucas 4188
Ranicki, A. A. 2760a-d
Ranicki, Andrew 11345
Rankin, Samuel M., III 3089
Rannacher, Rolf 11815
Rao, A. B. 7914
Rao, A. N. V. 1389, 6280
Rao, Aribindi Satyanarayan 5574, 8129, 8271
Rao, C. Radhakrishna 5266, 8945, 8987, 8988, 9949, 14180. *See also* 11595
Rao, G. L. N. 3398
Rao, K. P. S. Bhaskara 6099
Rao, K. R. 12347
Rao, M. M. 912
Rao, M. R. 2163
Rao, M. Bhaskara 6099
Rao, M. Kondala 6719
Rao, S. B. 12580
Rao, Thammavarapu R. N. 9839
Raoult, Jean-Claude ★2371
Raphael, R. 9468
Raphaël, Robert 10310
Rapoport, E. F. 14565
Rapoport, E. O. 1401
Rapp, A. 5503
Rapp, P. 9712
Rapp, Piotr 13254
Rappaport, Leon 7151
Rardin, R. L. 2169, 6943
Raś, Z. 9146, 9162
Rasch, G. *See* 1447
Rasetti, Mario 1928
Raševskiĭ, P. K. 10691
Rashevsky, N. 14808, 14809
Rashid, M. A. 4394
Rasiowa, Helena 61
Raskin, V. G. 13247
Raškiniené, Dana 14406
Rasmussen, David L. 490
Rasmussen, Robert D. 7057
Raspopov, B. M. 4112
Rastogi, S. C. 6013, 13737a-b
Rastrigins, L. ★7074, ★9189
Rasulov, M. L. *See* 4900
Rasulov, N. P. 1508
Răsvan, Vl. 4778
Raszillier, I. 6727
Ratajczak, Tadeusz 4237
Rath, John H. 11574
Rathie, P. N. 2337, 8063
Rathore, M. P. S. 11242, 13763
Rathy, R. K. 4305
Ratiu, Tudor S. ★1266
Ratliff, L. J., Jr. 299, 2645, 12754
Rattray, B. A. 2750
Ratyni, A. K. 10739
Rätz, J. 3641
Rauch, Jeffrey 12975, 13353
Raudys, Šarūnas 11668
Rauf, Sk. A. 9255
Rault, J.-C. 985
Rautenberg, Wolfgang 2443
Rauzy, Gérard 10566
Rav, Y. 4991
Raveché, Harold J. 6812
Ravenel, Douglas C. 8612, 8632
Ravetz, J. R. *See* ★7172
Raviart, P.-A. 4331, 9113, 14377
Rawlins, A. D. 6671
Ray, B. K. 839–841, 13890
Ray, Barada K. 3680, 3681, 8606
Ray, Dipankar 12118
Ray, R. M. 6355
Ray, S. K. 8216
Ray, W. D. 1394
Ray-Chaudhuri, D. K. 10042
Raychev, P. *See* Raĭčev, P.
Raymon, Louis 798
Raymond, F. H. 9141
Raymond, Frank 3703
Raynaud, Michel 7488
Razar, Michael 5122
Razin, Assaf 12168
Razmyslov, Ju. P. 7536
Razorenov, G. N. 12262
Razumihin, B. S. 4596–4599, 13099, 13700
Razzaghi, M. 4761
Razzaque, Abdur 11813
Rea, Claudio 10676, 13115
Read, Campbell B. 9003
Read, D. R. 13836
Read, E. W. 393, 2818
Reade, Maxwell O. 2938
Rebbi, C. 9401
Rebrova, M. P. 14466
Recami, E. 6868
Reckhow, Robert 7215
Recknagel, Rolf-Dieter 14351
Rečkoski, N. 450
Reckziegel, Helmut 13796
Recski, András 10035
Reddien, G. W. 9080
Redding, R. W. 6458
Reddy, A. R. 5685, 13379, 13399, 13402

Reddy, J. N. 1665, 4269
Reddy, Sudhakar M. 9878
Redčy, William L. 8651
Redekopp, Larry G. 12027
Redfield, R. H. 203
Redheffer, Ray 10850, 10851
Redi, E. 5087
Redinbo, G. Robert 7112
Red'kin, N. P. 9881
Red'kin, V. B. 2298
Red'ko, S. F. 9801
Redmond, Don 7407
Redozubova, O. S. *See* ★13734
Redžepov, A. 13274
Reed, P. 9540
Reed, Ellen E. 13826, 13854
Reed, G. M. 13863, 13868
Reeh, H. 9427
Reeker, Larry H. 4202
Rees, E. 7870
Reeves, Gary R. 12205
Regazzini, Eugenio 8959
Regel', A. R. *See* 2403
Regge, Tullio 12016
Rehder, W. 14284
Rehm, Hans Peter 2619
Rehmann, Ulf 7648, 10432
Reich, Edgar 7776
Reichard, Klaus 3746, 7869
Reichel, Hans-Christian 12593
Reichl, L. E. 2029, 2030, 12079, 14692a-c. *See also* 7157
Reid, J. K. 14339
Reid, K. B. 7593. *See also* ★2471
Reid, William T. 1042, 3123
Reilly, J. W. 2481, 10069
Reilly, N. R. 7676
Reilly, Robert C. 3626a-b, 13797
Reĭman, A. G. 6190
Reiman, István 5966
Reimer, M. 8135
Reinach, S. G. 11643
Reingold, Edward M. 12349
Reinhard, Hervé ★3864
Reinschke, Kurt 2270
Reischer, C. 7143
Reiser, B. 8935
Reisig, Wolfgang ★12502
Reiss, R.-D. 6369
Reissner, E. 4262
Reitberger, Heinrich 5258
Reiten, I. 7550
Rejto, P. A. 4431
Rembielinski, J. 6717
Remez, E. Ja. *See* 9946
Remorini, Giovanna 13180
Reneke, James A. 499
Rennie, Robert R. 6424
Renninger, G. H. 4706, 9710a-b
Rennison, J. F. 11069
Renschuch, Bodo 12757
von Rentein, Michael 13576
Rényi, Alfred *See* ★9960–★9962
Renz, Peter L. 1281
Repka, Joe 12984
Resch, Richard L. 13953
Rescher, Nicholas 64, ★7196
Rescigno, Aldo 7015
Reško, K. A. 5343
Resnik, Michael D. 12473
Resnikoff, H. L. 618
Ressel, Paul 2909, 8165
Restivo, Antonio 2327, 6576
Restuccia, A. 9557
Retherford, J. R. 951, 955, 3368
Rettel, Jürgen 12796
Reufel, Manfred 7457
Reusch, Bernd 2366
Reuter, G. E. H. 4715. *See also* 11536, 11537
Revankar, Nagesh S. 6387
Reversat, Marc 5160, 7395
Reveruk, N. V. 5999, 8432, 8433
Révész, P. 3784, 14062
Revjakin, A. M. 5019
Revuz, D. ★3852, 6288, 8779
Revzen, M. 6822
Reyes, Araceli 389
Reyes, Gonzalo E. 7265, 10009a-b
Reynaud, G. 3159
Reynolds, Donald 14876
Reynolds, John C. 1704
Reynolds, R. 9584
Reynvaan, Conrad H. H. 7220
Reznik, A. M. ★9189
R-Grandjeán L-Valcárcel, A. 7584
Rhoades, B. E. 5920
Rhodes, Ian B. 7083
Rhodes-Robinson, P. F. 4308
Ribarič, M. *See* 7149
Ribenboim, P. 290, 7441
Ribet, Kenneth A. 7379, 7424, 7435, 12781
Ricca, G. 6486a-b
Ricci, Paolo Emilio 5519, 7419
Ricciardi, Paolo 7982
Rice, John 1514
Rice, John R. 1542, 9058a-c, 13392
Rice, Michael D. 1172, 6095, 8580
Rich, Michael 7568
Richard, I. L. 6777
Richards, Catherine *See* ★4327
Richards, F. B. 13394
Richardson, R. W. 2120, 7647
Richardson, W. R. H. 7296
le Riche, L. R. 99
Richert, H.-E. ★12689
Richert, J. 9501
Richman, F. 2839, 4937, 13898
Richmond, L. B. 264, 5032
Richoz, A. 9357
Richter, Bernd 5141
Richter, Dieter 2364
Richter, Hans ★14311
Richter, Wayne 81
Richter-Dyn, N. 13382
Rickman, Seppo 2960
Riddell, R. C. 13990
Ridder, J. 5416
Rider, Daniel 858, 5745
Rieckers, A. 6778
Riedel, M. 3803
Riedemann, Eike Hagen 9142
Rieder, Peter 3322
Rieder, Ulrich 9679
Riedler, K. 1142
Riedrich, Thomas 2382
Rieffel, Marc A. 466, 4415, 7695
Rieger, G. J. 5101
Riekstiņa, V. 13160
Riekstiņš, E. 13421
Riemenschneider, Oswald 3022
Riemenschneider, S. D. 8093
Riesenfeld, R. F. 13384
Riess, R. D. 1559, 6445
Rigas, Alcibiades 13782
Rigolot-Turbat, Christiane 12082
Rīīves, K. 3631
Riley, Robert 542, 1199, 13896
Rim, K. 9277
Rimán, János 8064
Rinco, Stefan 6365
Rindler, Harald 5155
Ringeisen, R. D. 123
Ringel, Claus Michael 10340
Ringel, Gerhard 10055
Ringrose, J. R. 13580
Ringwood, G. A. 4441
Rink, R. A. 4124
del Río Bueno, Manuel 11592
Rionero, Salvatore 6672
Rios, Hélène 11127
Ríos, Sixto 6339
Ris, Frederic N. 14336
Risler, Jean-Jacques 5226, 12761, 13108
Rissanen, J. 7017, 12359
Ritchie, Gordon E. 11968
Rittenberg, V. 2742a-b, 12844, 12845
Ritter, Gunter 8162
Ritus, V. I. 12028
Rival, Ivan 5064, 7330, 7337
Rive, L. Dalle 1617
Rivest, Ronald L. 1712
Rivière, N. M. 1061
Rivkind, V. Ja. 1871, 4143, 11959
Rivlin, R. S. 11926
Rivlin, T. J. 3265
Rizov, V. A. 12018, 12045a-b
Rizvi, M. Haseeb 1448
Rizza, Giovanni Battista 10621
Rizzi, Alfredo 1439
Rizzi, Bruno 12370
Rizzitelli, Giuseppe 10518
Rjabcev, V. A. 9259
Rjazanceva, I. P. 3529
Roach, F. A. 776
Roach, G. F. 8324
Roach, Gary F. 570
Robb, Douglas 9950
Robbins, Herbert 11686
Robbins, Naomi B. 6289
Robert, Alain 12656
Robert, Raoul 5912
Roberts, Donald John 6904
Roberts, Donald M. 3899
Roberts, James W. 3670, 10625
Roberts, Joel L. 5230, 10265
Roberts, Leslie G. 10257, 10269
Roberts, S. M. 4122
Robertson, E. F. 10422
Robertson, Edward L. 11850
Robertson, Guyan 3426, 5845
Robertson, M. M. 244, 253, 9515
Robertson, W. A. 13840
Robinet, B. *See* ★6536
Robinson, Abraham ★2457
Robinson, Clark 3762, 6207, 11399
Robinson, D. A. 2860
Robinson, Derek J. S. 2807
Robinson, Derek W. 2040, 13586
Robinson, Donald W. 10131
Robinson, G. de B. 2391, 2392
Robinson, G. K. 3946
Robinson, Ivor 12144
Robinson, John P. 7134
Robinson, P. D. 7932
Robinson, S. M. 13828
Robson, J. C. 10327
Rocca, F. 1969
Rochberg, R. 843, 5839
Rochowski, M. 6105
Rockafellar, R. T. 4652, 6954
Rocos, Pantelis 2759
Rodemich, E. 2894
Rodičev, V. I. ★14732
Rodin, B. 7774
Rödl, Vojtěch 133, 173, 10027
Rodrigues, A. A. M. 14020
Rodrigues, A. J. 1560
Rodrigues, Paulo R. 11394
Rodriguez, François 6562
Rodriguez, R. 1971
Roe, P. H. 9873
Reopstorff, G. 12090
Roetman, E. L. 624, 1904
Rogač, D. I. 3190
Rogava, M. G. 12495
Rogers, C. 11915, 12026, 14497, 14513
Rogers, C. A. 11173
Rogers, James T., Jr. 8550
Rogers, Joel C. W. 6687
Rogge, L. 14051
Roggenkamp, K. W. 350, 12876
Roghi, Gino 9059
Rogov, E. I. ★4737
Rogovoĭ, M. R. 8471
Rogozin, B. A. 8911, 11518
Rogožin, Ju. V. 12497
Roguski, S. 4976
Rohlin, V. V. 11380
Rohr, R. J. 9032
Rohrlich, F. 9420
Roider, Bernhard 3280
Roĭtberg, Ja. A. 11133
Roitberg, Joseph 6138
Roĭtburd, V. L. 3516, 10895
Roĭter, A. V. ★360
Roles, J. W. 5671
Rolewicz, Stefan ★963, 1046, 11137
Roller, W. F. 11431
Rollero, Aldo 2654
Roman, J. R. 12272
Roman, P. 2016, 6792
Roman, Steven 155
Romaña, Antonio 7169
Romankevič, A. M. 9037
Roman'kova, T. P. 8486, 13740
Romano, Antonio 12145
Romanov, V. A. 3404
Romanova, N. N. 1848
Romanovič, V. A. 8769, 8946
Romero Márquez, Juan Bosco 13385
Ronca, G. 4458
Ronen, Yigal 9523
Ronga, Felice 2655
Ronkin, L. I. 579, 7847, 13104
Ronning, Gerd 11720
de Roo, M. 14624
Roodman, Gary M. 6388
Rooney, P. G. 556
Roos, Elena *See* Roos, Jelena
Roos, Guy 10682
Roos, Jelena 1384
Root, William L. 4783
Rootenberg, Jacob 12329
Rootzén, Holger 6238
Ropela, S. 5681, 5710
Rorres, Chris 6997
Rosa, Alexander 7292, 12539
de la Rosa, B. 12633
Rosander, Robert R. 12200
Roşca, Radu 6027, 6043, 6874, 11215, 11231, 13783
Roscoe, D. F. 1618
Rose, Alan 4919, 4920
Rose, G. 2434
Rose, H. E. 12500
Rose, John S. 7612, 7619
Rose, L. R. F. 6633
Roseau, Maurice 14553
Roselle, D. P. 7275
Roseman, Joseph J. 6648
Rosen, Barry K. 11863
Rosén, Bengt 8942
Rosen, Gerald 9389, 9713
Rosen, Harvey 3704
Rosen, Jay 9432, 13555
Rosen, Michael 5248
Rosen, Nathan 2108
Rosen, Robert 2248
Rosen, Ronald H. 8642
Rosenberg, Arnold L. 14472
Rosenberg, Harold 8736
Rosenberg, Jonathan 7693
Rosenberger, Gerhard 7637
Rosenblat, S. 1849, 13235
Rosenblatt, Murray 5682, 11472
Rosenbrock, H. H. 2297, 12267
Rosencrans, S. I. 5630
Rosenfeld, Azriel 1717, 1721, 6590, 6591
Rosenfel'd, B. I. 3714
Rosenfeld, Léon *See* 9930-9932
Rosenholtz, Ira 6064
Rosenkrantz, D. J. 6568, 12222
Rosenlund, S. I. 3872, 3880, 6327, 14158, 14159
Rosenmüller, J. 10536
Rosenstiehl, P. 9854
Rosenthal, Haskell P. 5810
Rosenthal, John W. 2465
Rosenthal, Peter 969, 5850
Rosenthal, Robert W. 6904
Rosiek, Maria 2441
Rosłaniec, H. 11295
Ross, D. K. 2109
Ross, G. 4334
Ross, Kenneth A. ★446
Ross, W. R. 1950
Rosser, J. Barkley 1654
Rosset, Shmuel 10289
Rossi, Fabio 377a-b, 12950
Rossi, Francesco Saverio 8199
Rossi, Guido A. 7713
Rossi, H. 10504
Rossi, Luisa 14386, 14387
Rossier, Edouard 14299
Rossowska, Michalina 6592

Rostovskiĭ, V. S. 6732
Rota, Gian-Carlo 7508
Rotando, Louis M. 10516
Rotar′, V. I. 6275
Rotenberg, M. A. 6875
Rotfel′d, S. Ju. *See* 22
Roth, B. 3399
Roth, Richard L. 7603
Rothaus, O. S. 5354
Rothblum, Uriel G. 10294
Rothbucher, Heinz *See* ★7187
Rothbucher, Monika *See* ★7187
Rothe, E. H. 1290
Rothman, Edward D. 4018
Rothschild, Bruce R. 2483
Rothschild, Linda Preiss 5741, 12993, 9729
Rouault, Alain 11619, 11620
Rouanet, H. 3895
Roucairol, Gérard 14431
Rouche, N. 3113
Roudier, J. 8938
Rouet, A. 1973
Roughgarden, Jonathan 2250
Roulier, John A. 3252, 10950
Rounds, William C. *See* ★11828
Rouke, C. P. ★1234, 8655
Rouse, W. B. *See* 7037
Rousseau, C. C. 5030
Roussopoulos, Nicholas D. 12397
Routley, R. 4926
Rouvière, François 13473
Roux, J. 11784
Roux, J. J. J. 6376
Rovba, E. A. 3238
Rovder, Jozef 644
Roventa, E. 13884
Roventa, Eugen 11258
Rowicki, A. 4625
Rowland, James R. 14852
Rowlett, R. J. 6171
Roxin, Emilio O. 8406
Roy, A. K. 3360, 3361, 8236
Roy, Amit 12755
Roy, Bernard 9614
Roy, G. 12919
Roy, Roch ★11423
Roy, S. R. 4517
Royall, Richard M. 6344. *See also* 11600
Royer, Antoine 12049
Roynette, Bernard 11435
Royster, W. C. 13059
Rozanov, Ju. A. 8830. *See also* 11
Rozenberg, Grzegorz 1728, 1729, 6566, 9180
Rozenbljum, A. V. 478, 5395
Rozenbljum, G. V. *See* 22
Rozenbljum, L. V. 5395
Rozenblyum, G. V. *See* Rozenbljum, G. V.
Rozendorn, È. R. 11253
Rozenfel′d, A. I. 10223
Rozenfel′d, E. A. 921, 11050
Rozmus-Chmura, M. *See* 8059
Rozonoèr, L. I. ★4210
Rozov, Ju. L. 12277
Rozov, N. H. *See* ★3061, ★3062
R.-Salinas, Baltasar 186
Rubal′skiĭ, G. B. 4608
Ruban, V. I. 5692
Rubanovič, G. 5074
Rubanovskiĭ, V. N. 11892
Rubel, L. A. 521, 2978, 7792. *See also* 7710
Ruben, Harold 6349, 7881
Rubenfeld, L. A. 13239
Ruberti, Antonio 12271
Rubin, Frank 2509
Rubin, Izhak 14873
Rubinov, M. M. 6964
Rubinowicz, A. 6694
Rubinšteĭn, G. S. 12161
Rubinstein, J. H. 5068, 8638
Rubio, Baldomero 10539
Ručinskiĭ, V. S. 3329
Rucker, R. V. B. 12524
Ruckle, William 3358, 3373
Rudeanu, Sergiu 2352
Rudenko, A. B. 10329
Rudenko, A. K. 7930, 7931
Ruderman, M. S. 14659
Rudin, Mary Ellen 3669, 13829
Rudin, V. N. 13030, 13031
Rudisill, Carl S. 1572
Rudolfer, S. M. 5440
Rudolph, Daniel 2917–2919
Rudomanov, V. I. 1358
Rudraiah, N. 9322
Rudzkis, R. 11697
Ruegger, Heinz ★9214
Rueff, Marcel 37
Ruelle, David 3759, 3763, 5441, 8732, 9526, 12097
Ruess, Wolfgang 3348, 13533
Ruge, P. 6656
Ruggeri, G. J. 9390
Ruggeri, Tommaso 12107
Rugh, Wilson J. 9743
Ruhe, A. 4077
Ruhin, A. L. 3935, 6358
Rühs, Fritz 13283
Ruiz Tolosa, Juan Ramon 12802
Rumatowski, Karol 14884
Rumer, Ju. B. ★14599
Rumjancev, V. V. *See* ★14842
Rumjanceva, L. I. 6886
Rummel, Reiner 9603
Rund, Hanno 1277, 4400
Rundell, William 8032
Runge, W. 6328, 8924
Runggaldier, Wolfgang 11687
Runnels, L. K. 9505
Ruoff, D. 11165
Ruppert, Wolfgang 12954
Rus, Ioan A. 3682, 6119
Rus, Teodor 11864
Rusakov, S. A. 7683
Rüschendorf, Ludger 3894, 8806
Ruscheweyh, Stephan 533, 5604, 10618, 10619, 13060
Ruščic′ka, S. O. 9254
Ruščic′kiĭ, Ja. Ja. 9254
Rusconi, Marcella 4579
Rusia, K. C. 877, 5763
Rushing, T. B. 8644
Rusk, Michael D. 8117
Russak, I. Bert 5936, 11142
Russakovskiĭ, E. M. 3505
Russell, A. H. 14763
Russell, D. C. 778, 10924
Russell, David L. 1059, 13248, 14375
Russell, R. D. *See* Russell, Robert D.
Russell, Robert 4674, 4683
Russell, Robert D. 4150, 14404
Rüßmann, Helmut 14000
Russo, Lucio 14682
Russo, Remigio 14552
Rustin, Randall *See* ★4173
Ruszczyński, Andrzej 14818
Rutelli, Giovanni 4846, 9351
Rüthing, Dieter 7326, 9965
Rutkas, A. G. 5037
Rutkovskiĭ, V. Ju. 12288
Rutman, R. 9769
Rutter, E. A. 5214
Rüttimann, Gottfried T. 14586
Ruymgaart, F. H. 6371
Ružička, Peter 6577
Ruzsa, I. Z. 10116
Ruzzo, Walter L. 14474
Rvacov, V. L. 1667, ★1747, 2418, ★4256, 9242
Ryan, E. P. 7043
Ryan, Thomas A., Jr. 6314
Ryavec, C. 7401
Rybakov, V. N. 3605
Rybarczyk, Andrzej 165
Rybarski, A. 13006
Rybicki, George B. 14741
Ryff, John V. 7752
Ryscov, I. K. 2367
Ryzhov, Yu. A. *See* Ryžov, Ju. A.
Ryškov, S. S. 12665
Ryžik, I. M. *See* 4043–4049
Ryzkov, V. V. 13743
Ryžov, Ju. A. 6699
Ryžov, Ju. M. 1361, 8822
Rzaev, K. U. 13506
Rzaeva, U. S. 1414
Ržehina, N. F. 11203
Rzewuski, J. 4432

S

Saadabaev, A. 11009
Saak, È. M. 714, 3153
Saakjan, B. A. 2897
Sääksjärvi, M. *See* 2183
Saal, Harry J. 1707
Saari, Donald G. 4226, 9075
Saarniĭt, I. R. 4119
Saavedra, I. 1951
Sabadīş, Al. 3683
Sabaliauskas, L. 14600
Sabitov, I. H. 8536 13804, 13805
Sablin, N. I. 14338
Sabo, D. 8074
Šabunin, L. V. 7210a-b
Šabykeev, B. 3330, 3337
Sacerdote, George S. 2814, 2815, 4958
Sacheti, N. C. 14554
Sachidananda, S. V. 11970
Sachs, A. 9103
Sachs, Hans 3600
Sacker, Robert J. 656, 8729
Sačkov, E. G. 14397
Sačkov, V. N. 1336, 3793
Sackrowitz, Harold B. 3926
Sacksteder, Richard 3764, 6208, 11398
Sačunov, Ju. V. 11198
Sadiju, J. 4049
Sadikov, N. M. 8343
Sadovskiĭ, A. L. 8925
Sadowski, Horst 14367
Šadrin, G. A. 739
Sadullaev, A. 3036, 7830
Sadykov, I. H. 14021
Sadykova, S. B. 866
Saeki, Sadahiro 3292, 13462
Saeks, R. 1014, 1038
Sæenz, A. W. 1996
Šafarevič, I. R. 7480
Safarjan, L. P. 8465, 8472
Saff, E. B. 558, 804, 3060
Saffari, B. 269
Šafiev, R. A. 1595
Šafiro, A. A. 10417
Safko, J. L. 4521
Safoev, M. D. 13363
Safonov, M. V. 12334
Šafran, E. Ju. 14307
Safro, V. M. 14372
Sagara, Setsuo 2308
Sagateljan, K. V. 8883
Sage, Andrew P. 4573
Sagirow, Peter S. 4227, 5572
Sagle, Arthur A. 11224
Sah, Chih Han 7506
Sahai, Hardeo 3929
Šahaĭdarova, N. 6239
Šahbazov, A. A. 8926, 8927
Sahgal, R. 7075
Sahin, Izzet 2143, 3881
Sahney, B. N. 815, 816, 3250
Sahney, Vinod K. 4626
Sahni, D. C. 9524
Sahni, Sartaj K. 1722, 4189, ★6540, 9863
Sahnovič, L. A. 3446
Sahonenko, V. M. 2986
Sahoo, B. 2212
Šahov, Ju. A. 1619
Šahova, N. G. 401
Saidel, Gerald M. 14806
Šaĭdenko, A. V. 13714
Šaĭhet, L. E. 7970
Šaĭmuhambetova, G. 7167
Šaĭn, B. M. 2849, 2850
Sain, Michael K. 2264
Saini, G. L. 6681
Saint-Pierre, Jean 10542, 11300
Saint-Raymond, J. 13515
Saito, Kyoji 1276
Saito, Nobuji 10084
Saito, Sadao 104, 105
Saito, Satoru 12098
Saito, Shiroshi 11323
Saitô, Teishirô 13610
Saito, Tosiya 8598
Saitoh, Saburou 10584
Sakaguchi, Minoru 9005, 9694, 9830, 14793
Sakaguchi, Toshio 6011
Sakai, Fumio 10683, 10684
Sakai, Manabu 9095
Sakai, Ryozo 7139
Sakai, Shôichirô 945, 8301
Sakaki, Hiroshi 2353
Sakamoto, Jiro 9392
Sakamoto, Kunio 6047
Sakamoto, Reiko 744, 10876
Sakane, Yusuke 10692
Sakarovitch, M. 5027, 7289
Sakata, Sadahisa 7971
Sakawa, Masatoshi 4618
Šakenko, N. I. 7267
Sakoto, Moussa 2110
Saks, È. 4277
Saks, R. S. 8013
Šakuov, S. N. 7223
Sakurai, Hidekazu 12385
Salahitdinov, M. S. 3180
Salama, H. A. 1361
Salamin, A. *See* 2138
Salanova, M.ª A. 5229
Šalát, T. 5157. *See also* 34
Salbany, Sergio ★13869
Salce, Luigi 429
Salçev, L. Z. 7907
Saleh, A. K. Md. Ehsanes 14234
Salehov, D. V. 913
Saleski, Alan 8585
Salié, Nikolaus 14733
Saliev, A. 737, 13320, 13321
Salihov, G. N. 2801
Saliĭ, V. N. *See* ★2552, ★5058
Salija, R. N. 14768
Salinas, Norberto 3461
Salinger, D. L. 861
Šaljuhin, Ju. N. 6627
Salkin, G. R. 6941
Salkin, H. M. 6949
Sallee, G. T. 5979
Salles, Maurice 4580, 6898
Salomaa, Arto 1730, 4203
Salow, Edzard 3566
Salter, K. *See* 11874
Salukvadze, M. 13675
Salusti, Ettore 9600
Salvadori, Luigi 663
Salzberg, Pablo M. 8599
Salzer, Herbert E. 14324
Samaniego, Francisco J. 4791
Samar, M. S. 8174
Samarin, M. K. 11085
Samarskiĭ, A. A. 9929
Samedov, N. I. 10883
Šamina, V. A. 11933
Samiuddin, M. 3941
Samko, S. G. 8270
Samochwalow, K. *See* Samohvalov, K. F.
Samohin, Ju. A. 10767
Samohvalov, K. F. 7197
Samoĭlenko, A. M. 3096, 3331, 10748, 10758, 10760, 13236
Samoĭlenko, Stanislav I. 4816
Šamojan, F. A. 5472
Samoylenko, Stanislav I. *See* Samoĭlenko, Stanislav I.
Sampaio, Rubens 6820
Sampathkumar, E. 5025, 11649
Sampson, G. 13561
Sampson, J. H. 473
Samsonadze, G. T. 407
Samuel-Cahn, Ester 1444
Samuelidès, Manuel 7753
Samuels, S. M. 1412, 1503
Samuelson, Paul A. 12179
Sanadze, D. K. 5728
Šananin, N. A. 13269
Sancaktar, Selim 6814
Sánchez, David A. 2249
Sánchez, Julián 14657
Sánchez Giralda, Tomás ★7466
Sanchez-Palencia, Enrique 4260
Sánchez-Palencia-Hubert, Jacqueline 1859
Sandberg, I. W. 4583, 4600
Sandell, Nils R., Jr. 9792
Sanders, C. W. 9805
Sanders, David 2527
Sanders, Thomas J. 13842
Sanderson, B. J. ★1234
Sandhas, W. 9454
Sandler, R. L. 7780
Sandler, Reuben 1080
Sandomierski, F. L. 7515. *See also* ★10306
Sandoval Vallarta, Manuel *See* ★4885
Sandri, G. 6809
Sandroni, Alba 3029
Sandžieva, K. B. 13307, 13308
Sanerib, Richard A., Jr. 197
Sanfirov, Ju. Z. *See* ★2403
Sanguineti, Giannina 9323
Šanin, N. A. 74. *See also* ★7190
Sanini, Aristide 8473, 11232
Sankaran, V. 12297
Sankaranarayanan, G. 1421
Sannomiya, N. 12333
Sansing, R. C. 11614
Sansone, G. ★10927, 12631
Sansuc, Jean-Jacques 2657
Sánta, J. 3221
Santaló, L. A. 1093
Santos, Bernardo Recamán 5098
Sanuki, Heiji 6806
Sapagovas, M. P. 1630
Saparnijazov, O. 12681
Saperstone, Stephen H. 2314
Saphar, Pierre 3438a-b, 8334
Sapiecha, Krzysztof 2354
Šapiro, G. S. ★11901
Šapiro, L. B. 8576
Šapirovskiĭ, B. E. 11280
Saporta, Gilbert 3972
Šapukov, B. N. 4902
Sarafova, G. H. 3331
Saralski, Bogdan 86
Saran, L. A. 9325
Sarason, Donald 3416
Sard, Arthur 3234
Sardanašvili, G. A. 6718
Sargan, J. D. 4026, 4027
Sario, Leo 575, 576, 7819, 8519, 10596, 13780a-b, 13781, 13784
Šariphodžaeva, F. 2801
Sarkar, S. 9376
Sarkisjan, S. O. 14510
Šarkovs'kiĭ, O. M. 675, 8734, 10773, 11395, 11396
Sárközi, A. 5165
Sarlet, W. 6738
Sarma, Gabbita S. R. 14555
Särmdal, Carl Erik 1432
Sarti, G. C. 11934
Sarvanov, V. I. 10038
Sarvas, Jukka 546
Sarwate, D. V. 14870a-b
Saryev, M. 3321
Sarygulov, K. S. 3338
Sarymsakov, T. A. 942, 8820, 13626
Sasai, Hitoshi 7047
Sasaki, Ryuji 2663
Sasaki, Shigeo 13788
Sasaki, Shiro *See* Sasaki, Siro
Sasaki, Shosuke 9461
Sasaki, Siro 7276
Sasaki, Tateaki 12001
Sasaki, Yoshi Kazu 6513
Sasaki, Yoshinari 12302
Sasiada, E. 10561
Sastri, C. C. A. 12093
Sastry, K. P. R. 8241
Sastry, S. S. 1647
Satake, I. 614, 12657
Šatalov, V. E. 6215, 14012
Šatašvili, A. D. 8835
Sathaye, Avinash 7449
Sathe, Sharad T. 7135
Sathe, Y. S. 3921
Šatilo, È. Ĭ. 12887
Satimov, N. 4703
Sato, Daihachiro 2615
Sato, Enji 862
Satō, Fumihiro 12662
Sato, Hiroki 5463
Satō, Isuke 38. *See also* ★10
Sato, Mikio 8747, 8748
Sato, Ryotaro 2920, 10567, 13574
Satoh, H. 3044
Šatskih, S. Ja. 8831
Sattarova, M. K. 7832
Satterthwaite, Mark Allen 2159
Sattinger, D. H. 4314
Sattinger, Michael 2155
Satyanarayana, Kesiraju ★3565
Satyanarayana, M. 2851a-b, 10454c
Satygulova, S. 3332, 5825
Saulis, L. 3819, 3820
Saunders, D. I. 3871
Saunders, M. A. 4633
Saunders, P. T. 9733
Saunders, Roy 6993, 8933, 12249
Saunders, Sam C. 12455
Sauriol, Pierre 4915
Sautter, W. 7494
Sauvageot, Jean-Luc 7753
Savage, I. Richard 3781
Savage, J. E. 4184, 4842
Savage, L. J. 1478
Savage, S. L. 6558
Savčenko, A. Ja. 9206
Savčenko, L. Ĭ. 1674
Savchenko, A. Ia. *See* Savčenko, A. Ja.
Savčuk, V. F. 11771
Savel'ev, B. V. 4617
Savenko, P. A. 11986
Šavgulidze, E. T. 13523
Savinov, N. V. 11265
Savits, T. H. 6431
Savov, T. P. 8425
Savukynas, A. J. ★4427
Savurbaev, A. S. 1798
Sawa, Takamitsu 1492, 14300
Sawada, Kazuya 4618
Sawaragi, Yoshikazu 2301, 2305
Sawicki, Janusz 12321
Sawicki, Tadeusz 11615, 11616
Sawicki, Tadeusz 11616
Sawin, Dwight H., III. 7128
Sawyer, D. B. 3595
Sawyers, K. N. 11926
Saxena, P. C. 4657
Saxena, R. B. 8082, 10930
Saxena, R. K. 7892, 13161, 13502
Sayama, H. 12219a-b
Sayer, F. P. 5663
Saylor, Paul E. 9110
Šazaren, Ž. *See* Chazarain, Jacques
Sazonov, V. Ju. 7211
Sazonov, V. V. 11463. *See also* 6
Sazykin, A. A. *See* ★2404
Sbordone, Carlo 5801
Scanio, J. J. G. 6728
Scarf, Herbert 4601, 6905
Scarpellini, B. 7219
Scarpini, F. 14401
Scarselli, Alessandro 12888
Ščepkin, G. G. 14573
Ščerbakov, R. N. 11200. *See also* ★1094
Ščerbakov, V. I. 13453
Ščerbakova, R. I. 13630
Ščerbakova, V. M. ★3262
Ščerbina, G. V. 13188
Schaaf, Manfred 13996
Schaal, Hermann ★12800
Schaback, Robert 3235, 13418
Schach, S. R. 7915, 10711
Schacher, Murray 5199, 12716
Schachermayer, Walter 501, 5856
Schaeffer, David G. 1850
Schaeffer, Helmut 3579, ★11023
Schaeffer, L. R. 1494
Schäfer, Lothar 1997
Schafer, R. D. 10350
Schäffer, J. J. 10807
Schaible, S. 2205, 4655, 9675, 9676
Schäl, Manfred 4609
Schaller, Kay-Uwe 7610
Schapira, P. 741, 1314. *See also* 17, 18
Schaps, Mary 7467, 10260
Scharf, Alois ★13920
Scharf, Louis L. 2306
Schalau, Rudolf 7505
Scharlemann, Martin 3710
Schassberger, Rolf 11690
Schatte, Peter 1346
Schattschneider, Doris J. 8581. *See also* 11289
Schatz, A. H. 14402
Scheaffer, Richard L. 14176
Schechter, E. 4132
Schechter, Murray 5969
Scheerer, Hans 6187
Scheffold, Egon 3236
Scheid, Werner 14603
Schein, B. M. *See* Šaĭn, B. M.
Scheire, L. 4437
Scheja, G. ★294
Schejbal, Vladimír 6700
Schellenberg, P. J. 2496, 2497, 12554
Schelp, R. H. 152, 153, 5030, 12568
Schelter, William 5295
Schempp, Walter 5707, 11406
Schenkman, Eugene 12905
Scherer, Karl 8094

Scherer, R. 1620
Scherk, P. ★13702
Schertz, Reinhard 276, 7428, 10205
Scherzinger, Ann 14304
Schett, A. 11736
Scheuneman, John 470, 612
Scheunert, M. 2742a-b, 12844, 12845
Schiavoni, N. 12280
Schick, Marlene 10407
Schierholz, G. 1955
Schierwagen, Andreas 2609
Schieve, William C. 12047
Schiff, J. L. 5458
Schiffer, M. 10598, 11129
Schild, Alfred 6788
Schinas, J. 8060
Schincke, Erich 14327, 14540
Schinzel, A. 270, 10142, 12726, *See also* ★2405-★2407
Schipp, F. 3281, 13446, 13447
Schirmer, Helga 1204
Schirotzek, W. 3359
Schlegel, Palmer R. 7496. *See also* 7497, 7498
Schlickewei, Hans Peter 10158
Schlindwein, M. 2021
Schloßer, Karl-Heinz 801, 1628
Schlösser, Ludwig ★1705
Schlumberger, Maurice 6597
Schlup, Werner A. 11898
Schmaal, Albertus 11464
Schmeidler, David 9613
Schmeißer, Gerhard 5520
Schmerl, James H. 2450
Schmets, J. 3538, ★11041
Schmetterer, L. ★3890. *See also* 8818
Schmid, Hans Albrecht 6543
Schmid, Peter 7620
Schmid, Wilfried 7868
Schmidt, A. 3115
Schmidt, Asmus L. 10160
Schmidt, Bernd 14739
Schmidt, D. 8120
Schmidt, D. C. 2515, 9882
Schmidt, Dieter S. 4228
Schmidt, E. T. 184, 188
Schmidt, Erhard *See* 7179
Schmidt, Gerd 6329
Schmidt, Hermann 228
Schmidt, J. W. 350
Schmidt, Jochen W. 1596, 6496
Schmidt, K. 3804, 7706
Schmidt, Peter 1528
Schmidt, V. 1373, 11560
Schmidt, W. 6727
Schmidt, Wolfgang H. 14242
Schmidt, Wolfgang M. 7393, 12677
Schmitendorf, W. E. 6959, 6975, 9786, 12239
Schmitt, B. 13251
Schmitt, B. V. *See* Schmitt, Bruno V.
Schmitt, Bernard 7754
Schmitt, Bernhard 4056
Schmitt, Bruno V. 5546
Schmitt, K. 3097, 10724
Schmitz, Norbert ★1329
Schneider, A. 10725, 10726
Schneider, Hans Jürgen 9181, 14453
Schneider, K. R. 5547
Schneider, Manfred 5629, 14363
Schneider, Michael 7854
Schneider, Michel 5054, 12365
Schneider, Rolf 3586
Schneider, Theodor 10167
Schneider, Thomas R. 3284
Schnitzer, Howard J. 1952
Schnizer, B. 1881, 9352
Schnorr, C. P. 1714, ★2328, 4190, 6556, 9883
Schnute, Jon *See* 3187
Schober, G. 10598, 13085
Schochet, Claude 984
Schock, Eberhard 884
Schoen, R. 11243
Schoenberg, I. J. ★8095, 13388, 13393, 13394
Schoeneberg, Bruno ★236
Schoenfeld, Alan H. 8551
Schöler, U. 8259
Schomblond, Christiane 6858
Schön, Rolf 13897
Schöne, Wolfgang 7302
Schöpf, Hans-Georg 39
Schott, Th. 2018
Schottenloher, Martin 3024
Schrack, Günther 6506
Schrader, Robert 14653a-b
Schrage, Linus 4627
Schräpel, H. D. 7975
Schreiber, Helmut 14853
Schreiber, Michel 1405
Schreuer, Mynda 4781
Schröder, Eberhard M. 11164
Schröder, Gunnar 1597
Schroeder, A. 1736
Schroeder, Karl J. 5080
Schubert, C. F. 1006
Schubert, Horst ★11257
Schubert, L. K. 11877a-b
Schucany, W. R. 11633
Schucking, E. L. 14734
Schuh, H.-J. 11540
Schuitman, A. 8176
Schuler, P. F. 1731
Schulman, L. S. 6822, 14656
Schultz, R. E. 3689
Schulz, Ch. 3587
Schulze, Volker 12727
Schumaker, Larry L. 8096, 14312. *See also* ★5673
Schumitzky, A. 9669
Schupp, Paul E. 415
Schürger, K. 6333, 10085
Schürmann, Jürgen 4809
Schuss, Zeev 693
Schuster, Eugene F. 6353
Schütt, Dieter 12474
Schütte, Kurt 7213, 12503
Schutz, Bernard F., Jr. 12146
Schützenberger, M. P. 9182, 9183
Schuurmann, F. J. ★1482, ★11653
Schwach, Paul 10211
Schwandt, E. A. *See* ★236
Schwartz, Charles 9220
Schwartz, Diane 6334
Schwartz, Jacob T. ★1009
Schwartz, Laurent 900, 2910, 5425a-c, 6299, 8775, ★14030
Schwartz, M. 12091
Schwartz, W. 1543
Schwarz, A. S. *See* Švarc, A. S.
Schwarz, Binyamin 10718
Schwarz, Gideon 2919, 13036
Schwarz, Peter 2270
Schwarz, Štefan 2852
Schwarzkopf, A. B. 5939
Schweder, Tore 14248
Schweitzer, Paul J. 12223
Schwetlick, Hubert 4105
Schwichtenberg, Helmut 4928, 7231
Scimemi, Benedetto 5356
Scott, D. Bernard 312
Scott, L. L. 12869
Scott, Melvin R. 4120
Scott, Peter ★1227
Scott, Peter D. 13665
Scott, Stuart 3842
Scourfield, E. J. 12652, 12687
Scranton, Bruce E. 986
Scriba, Christoph J. 7171
Ščurenkov, V. *See* Šurenkov, V. M.
Sea, Ronald G. 4793
Seabury, Chester C. 7839
Seah, Sek Wui 5551
Searle, S. R. 1494
Sebakhy, O. A. 2262
Sebestyén, Z. 11070, 13578
Seborg, Dale E. 2274
Secrest, Don 14304
Seda, A. 3725, 6106, 13039
Šeda, V. 31
Šedivá-Trnková, Věra 2752, 5316, 12601
Sedláček, Jiří 175, 5055
Sedov, L. I. ★1764-★1767. *See also* ★9235, ★9288, ★12425
Sedunov, E. V. 3992
Seebass, R. 11979
Seeberg, O. 9546
Seeländer, Jörg 2193
Seely, Justus 6386
Seet, L. T. C. 4247
Šefel, S. Z. 13805
Šeftel', Z. G. 11133
Segal, Daniel 2811, 7630
Segal, G. B. 11319
Segal, I. E. 4442, 14620
Segal, V. M. 4278
Segall, Adrian 1374
Segawa, Shigeo 13069
Segerberg, Krister 12488
Seglar, P. 6745
Segre, Beniamino *See* 8457
Séguier, Pierre 13262
Sehgal, Sudarshan K. 5289
Sehgal, V. M. 1032, 13644
Šehter, V. L. 13189
Seibert, P. 7976
Seidel, J. J. ★10047
Seidel, W. 10610
Seiden, E. 6401
Seidenberg, Abraham 4938, 12741
Seidman, Thomas I. 5621, 5946
Seĭdov, Z. B. 13258
Seierstad, A. 3546
Seifert, C. J. 7740
Seifert, Franz D. 10425
Seiler, Andreas 13064
Seiler, Erhard 1998
Seiler, Rudolf 12014
Seinsche, D. *See* 2510
Seĭranova, M. I. 6531
Seĭsov, Ju. B. 3539, 3543, 8407
Seitz, Charles L. 9894
Seitz, Gary M. 10391, 10429
Sekackiĭ, V. V. 3441, 8474
Sekanina, Milan 10086
Sekerž-Zen'kovič, S. Ja. 11955
Sekimoto, Shoji 1732
Sekine, Katsuhiko 1988
Selberg, Atle *See* 15
Selberg, Henrik L. 10578
Selden, Annie Alexander 2863
Seldin, Jonathan P. 7184
Seleacu, Vasile 9009
Šelehov, A. M. 1111
Šelepov, V. Ju. 4361
Selfridge, J. L. 5106
Selgrade, James F. 1309, 11402
Seljakov, K. I. 2129
Selkow, S. M. 4725
Sell, George R. 656, 874, 7919, 7972, 13689
Selleri, F. 12033
Selliah, J. B. 3050
Selman, Alan 6554
Semadeni, Zbigniew 5858
Semencov, O. V. 11063, 13492
Semeniuk-Polkowska, Maria 6578, 14461
Semenjuta, V. N. 11407
Semenov, A. T. 3875
Semenov, E. M. 961, 13550
Semenov, S. M. 937
Semenova, N. M. *See* ★9963
Šemetkov, L. A. 2
Semon, M. D. 6746
Sempi, Carlo 12371
Sen, A. 12278
Sen, Ashish 3942
Sen, D. K. 9549
Sen, K. K. 2131, 2132
Sen, Kanwar 1396a-b
Sen, P. K. 3936, 3961, 11621, 14212
Senator, K. 7717
Šenbrot, I. M. 4619
Sendov, Bl. 817, 3225, 10933, 13391
Seneta, E. 1408, 2244, 3204, 8905
Šengelija, Z. I. 14364
Sen Gupta, A. 14888
Sen-Gupta, P. R. 9246
Sengupta, S. B. 8068
Sengupta, S. Sankar 11514
Senik, P. M. 9767
Senior, T. B. A. 4351
Sentilles, F. Dennis 1019
Sentis, Rémi 13184
Sentoh, Keiko 5331
Šepelenko, V. N. 4238
Šepeleva, R. P. 10755
Šepeljavyĭ, A. I. 7066
Šeptickaja, T. A. 2607
Şerban-Tofan, Doina 8344
Serbin, St. M. 6524
Şerbu, Mihaela 11681
Serdy, A. G. 4135
Sereda, P. P. 5864
Šeremeta, M. M. 14042
Šereševskiĭ, I. A. 916
Šeretov, V. G. 2952
Serežkin, V. N. 421
Serfling, R. J. 8976
Serfozo, Richard F. 11495
Sergeev, A. G. 982
Sergeev, M. I. 2816
Sergeev, N. P. 9117, 9118
Sergeraert, Francis 6182
Šergin, V. V. 14053
Sergysels, R. 1635
Serkov, V. I. 2299, 14353
Šerman, D. I. 4241
Šerman, I. M. 9651
Šerman, P. B. 1279
Sernesi, Edoardo 10675
Serov, V. S. 13335
Serre, Jean-Pierre 10491. *See also* 19, 20, ★7156
Sertel, M. R. 8388, 13831
Servien, Claude 13546
Seshadri, C. S. 7463
Šestopalov, V. P. 4352
Seth, Sharad C. 14885
Sethi, P. L. 13502, 13503
Sethi, Ravi 6547, 6928, 6930, 9166
Sethi, S. P. 7050
Seto, Noriaki 6735
Sevast'janov, E. A. 13409
Ševčenko, V. M. 4109, 4110
Ševcov, V. I. 13078
Ševelo, V. M. 7178
Severne, G. 9518
Ševljakov, A. Ju. 11490
Seybold, Hans 114
Sficas, Y. G. 5588, 13263
Sgall, Petr *See* ★11869-★11872
Shachtman, Richard 2206
Shafarevitch, I. R. *See* Šafarevic, I. R.
Shafer, Wayne J. 12180
Shafi, Q. 2021
Shah, Jayant 5246
Shah, K. R. 6391
Shah, K. Tahir 12063
Shah, Manilal 3055, 7806, 7887, 7897-7899, 10705, 13162
Shah, N. C. 992
Shah, S. M. 5465
Shaharir, M. Z. 14644
Shahinpoor, M. *See* 9301
Shakal, A. F. 11788
Shaked, U. 7034, 9754, 9762, 12299
Shalen, Peter B. 3706
Shalyukhin, Yu. N. *See* Saljuhin, Ju. N.
Shamash, Y. 9769
Shamina, V. A. *See* Šamina, V. A.
Shamir, E. 14462
Shamos, Michael Ian 14441
Shampine, L. F. 1621, 1636, 1899, 13325
Shanahan, Patrick 7711
Shanbhag, D. N. 8797
Shaneson, Julius L. 1238, 6167
Shankar, Hari 7763
Shankara, T. S. 13958
Shanker, Jai 12119
Shanks, M. E. 5204
Shannon, A. G. 11755
Shao, Chin Ch'ang 14647
Shapiro, Daniel B. 345
Shapiro, George S. 13465
Shapiro, H. L. 8564
Shapiro, Harold N. 12702, 12704
Shapiro, Harold S. 526, ★791
Shapiro, Jack 419
Shapiro, Joel H. 3375, 8215
Shapiro, Louis 2833
Shapiro, Victor L. 13348
Shapley, Lloyd 4601
Sharfuddin, A. 13776a-b
Sharma, A. 3232, 5683, 8084, 10530, 10940, 10943, 13388
Sharma, B. K. 11303
Sharma, B. L. 5514, 6151, 7888, 7889, 10467, 10700, 11358, 12947

Sharma, Bhu Dev 12360
Sharma, C. S. 4401
Sharma, D. N. 2111
Sharma, J. K. 6919
Sharma, K. L. 3993
Sharma, M. M. 3269
Sharma, N. K. 10925
Sharma, P. L. 11303, 13428, 13458, 13843, 13881
Sharma, R. S. 14253
Sharma, Ram Krishan 1762, 6605
Sharma, S. D. 3882
Sharma, Saroj 13518
Sharma, V. D. 4304
Sharp, David H. 2051, 2052
Sharp, J. Franklin 6952
Sharp, R. T. 4399
Sharp, Rodney Y. 2639
Sharpe, Kevin J. 10475
Shastri, A. R. 6129
Shatoff, Larry D. 7297
Shavel, Ira 12663
Shavitt, Isaiah 14700
Shaw, J. K. 5534, 6445, 13041, 13042
Shaw, Jiin Chang *See* Shao, Chin Ch'ang
Shea, D. F. 5669
Shedler, G. S. 2178
Shedletsky, John J. 2355
Shee, S. C. 12599
Sheehan, John 176
Sheffer, I. M. 3263
Sheil-Small, T. B. 5479
Shelah, S. 425, 4972, 10008
Sheldon, P. B. 7445
Shen, M. C. 9330
Shensa, M. J. 4847
Shenton, A. T. 7027
Shepard, Roger N. 1526
Shephard, Ronald W. ★2160
Shepley, L. C. 2090
Sher, R. B. 13875
Sherif, A. 2277
Sherif, Soraya 8076
Sherman, George C. 1883
Sherman, Thomas L. 3103, 3104
Sheth, I. H. 992
Shiba, Masaaki 3273
Shibata, Chōkō 1117, 13767
Shibata, Fumiaki 2059
Shibata, H. 2313, 7079, 7080
Shibata, Yukio 9895
Shieh, L. S. 14342, 14343
Shields, A. L. 521, 2978, 7787, 7792
Shields, P. C. *See* 20
Shifrin, E. G. *See* Šifrin, E. G.
Shigemoto, Kazuyasu 9462
Shikin, E. V. *See* Šikim, E. V.
Shilleto, J. 11165
Shima, Hirohiko 1131
Shimada, Nobuo 3723, 3732
Shimakawa, Kazuhisa 11312
Shimasaki, Masaaki 5761
Shimemura, Etsujiro 4750
Shimizu, Hideo 12658
Shimizu, Kiyotaka 2218
Shimizu, Kunio 6359
Shimizu, T. 14639
Shimizu, Yoshiyuki 868
Shimomura, Hiroaki 7738, 7739
Shimura, Goro 12664. *See also* 9915
Shin, Yong Woo 4332
Shinbrot, Marvin 3187
Shintani, Hisayoshi 4129
Shintani, Takuro 2825
Shioda, T. 324
Shiokawa, Iekata 10161
Shiota, Masahiro 742, 3742
Shiozaki, Akira 7111
Shipman, J. S. 4122
Shirahata, Shingo 14231
Shiraiwa, Kenichi 6209
Shiraiwa, Masayuki 12323
Shirakura, Teruhiro 1501, 6407
Shiratani, Katsumi 249
as-Shirazi, Maḥmud ibn Masʿud Kutb ad-Dīn *See* 9924
Shirota, Taira 10878
Shisha, O. 894, 6467
Shiu, Elias S. W. 966
Shiue, Jau Shyong *See* Hsieh, Chao Hsiung
Shiva, S. G. S. 7108
Shizuma, Ryoji 6165
Shlesinger, Michael F. 14687
Shlifer, Eliezer *See* ★2161, ★2162
Shlosman, S. B. 12074
Shmelev, V. V. *See* Šmelev, V. V.
Shmuely, Zahava 12588
Shmukler, Yuliya *See* Smukler, Julija
Shneydor, N. A. 7039
Shnider, S. 7875
Shnider, Steven 6162
Shock, Robert 12823
Shocker, Allan D. 6436
Shonkwiler, R. 967
Shoosmith, John N. 9096
Shorack, Galen R. 3965
Shore, Richard A. 7229, 12504
Shorey, T. N. 246, 7402, 12640
Shostak, Robert E. 6584a-b
Showalter, R. E. 3195, 3196, 10794
Shrikhande, M. S. 7287
Shrikhande, S. S. *See* ★4029
Shrivastava, B. M. 13172, 13176
Shtokhamer, Roman 1995
Shub, Mike 3760
Shukla, Anjali 13777
Shukla, D. P. 5515
Shukla, N. D. 6389
Shukurian, Ju. H. *See* Šukurjan, Ju. G.
Shul'man, V. S. *See* Šul'man, V. S.
Shultis, J. Kenneth 6835
Shultz, Frederic W. 943
Shum, Kar Ping 12957
Shyamasundar, R. K. 1724
Shyr, H. J. 434, 9184
Sibirjakov, G. V. 3400
Sibley, David A. 390
Sibner, L. M. 13150
Sibner, R. J. 13150
Sibony, Moïse 1044, 8375
Sibony, N. 7856
Sibuya, Y. 10736
Sicha, Jeffrey ★9921
Sichel, M. 1860
Sichler, J. 10372
Siciak, J. 10665
Sicks, J. L. 11367
Siddiqi, Rafat N. 779
Sidenko, M. T. 10867
Sidhu, Gursharan S. 4792
Sidijarov, S. 10801, 11010
Sidki, Said 2802, 2803
Sidki, Said N. 301
Šidlovskiĭ, A. B. *See* 32
Sidoroff, F. 4272, 14528a-c, 14529
Sidorov, E. A. 1189
Sidorov, N. A. 1036, 1037
Siebenmann, L. C. 11335, 13922
Siebert, Eberhard 1334
Siebert, H. 12690
Siegmund, D. 6410
Siegerstetter, Jill *See* 11536, 11537
Siegmann, W. L. 9291
Siegmund, David 11686
Siemaszko, Czesław 14800
Sieradski, Allan J. 13907
Sierpiński, Wacław ★2405-★2407
Sietmann, R. H. 9449
Sievers, Gerald L. 3913
Siewert, C. E. 7879, 9525
Šifrin, E. G. 4295
Šifrina, E. M. *See* ★2402
Sigal, I. H. 4638
Sigal, I. M. 13344, 13345
Sigal, R. 12147
Sigal, Richard 6876
Sigal, Richard F. 9487
Sigalotti, Luciano 8884
Šiganov, I. S. 14032
Sigillito, Vincent G. 5631
Sigmar, D. J. 4472
Sigmon, Kermit 454
Sigmund, Karl 5442, 13037
Sigorskiĭ, V. P. 4084
Sigrist, François 11324
Sigrist, Niklaus 5566. *See also* 7457
Šihaliev, N. I. 10612
Šihmanter, E. D. 928
Šihvatov, A. M. 14018
Šijački, Djordje 2882
Šikim, E. V. *See* 9
Sikorski, Roman ★924. *See also* ★2407
Silber, Robert 12622, 13619
Silberger, Allan 10508
Silberger, D. M. 12533
Silbermann, Bernd 9121, 13618
Silcock, Howard L. 7616
Sil'de, O. M. 14491
Šilds, Pol' *See* Shields, P. C.
Šiljak, Dragoslav D. 2290, 2300, 7067
Šilman, A. 6532
Sil'nikov, L. P. 11401
Šilov, G. E. 935, 13516
Silva, Alessandro 3015
Silvennoinen, Pekka 14670
Silverman, Herb 2944, 2945
Silverman, Leonard M. 7021, 12263
Silverman, Richard A. *See* ★13429
Silverman, Ruth 3581
Sil'vestrov, D. S. 1406, ★3811, 3812, 8778
Silvia, E. M. 534
Sim, Lak Chong 9773
Sim, S. K. 7519
Simaan, M. 2679
Simader, Christian G. 8018
Simary, M. A. 7900, 13163
Símchoni, Dan 8568
Šimel'fenig, O. V. *See* ★4685
Simha, R. R. 10655
Simkin, M. M. 4739
Simmons, Donald M. ★6944
Simmons, Gustavus J. 7303, 10121
Simmons, H. 87, 2456, 12518
Simmons, L. M., Jr. 10712
Simões-Pereira, J. M. S. 7298, 7304
Simon, Barry 1933, 1998, 4397, 5646, 5647, 9530, 11109. *See also* 10888
Simon, Herbert A. 6899
Simon, Jacques 476, 10510, 14717
Simon, Janos 4193, 9149
Simon, Jonathan 6123
Simon, Leon 727, 6040, 11243
Simon, Udo 11244
Simončič, Marjan *See* 7149
Simone, Carla 69
Simonenko, I. B. 8024
Simonis, J. 7492
Simonnet, Michel 11375, 13969
Simonovits, András 4581, 12181
Simons, Gordon 8790, 14263
Simons, Johannes Leonardus ★7361
Simonsen, W. 9007
Simovici, D. A. 7143, 14891
Simpson, J. E. 2515
Sims, Benjamin T. ★3638
Sims, J. A. 10067
Šimura, G. *See* Shimura, G.
Sinaĭ, Ja. G. 29
Sinclair, Annette 10605
Sinclair, George Edward 5423
Sindwani, Sushma 1396a-b
Šindžikašvili, O. N. 4263
Sine, Robert 854
Sinestrari, Eugenio 13636
Sing, Charles F. 4018
Sing, Fuk Yum 12808
Singal, Asha Rani 3654, 6086
Singal, M. K. 11281
Singatullin, R. S. 11216
Singer, David 3624, 3625
Singer, I. M. ★1273, 3495, 8758. *See also* 19
Singer, Michael 12874
Singer, Robert A. 4793
Singer, William M. 3699
Singh, B. 8506
Singh, B. M. 1774, 3324, 3325
Singh, Balvir 9033
Singh, Balwant 7456
Singh, Bhagat 622, 5589, 7890, 10808, 13264, 13265
Singh, Bijendra 850, 898, 1195, 6096
Singh, D. 10920
Singh, Dinesh 13371
Singh, F. 13172
Singh, Harpreet 1562
Singh, Jagbir 1497
Singh, K. D. 13779
Singh, K. L. 11121
Singh, K. P. 2111
Singh, M. P. 1433
Singh, Madan G. 1604
Singh, Om. P. 6014, 11220, 13770
Singh, P. 7681
Singh, Prem 10591
Singh, R. K. 5895
Singh, R. S. 1465
Singh, Rajinder 11603
Singh, S. 11269
Singh, S. K. 7781
Singh, S. N. 13486
Singh, S. P. 1032, 1033, 6015
Singh, S. S. 8503
Singh, Sahib 2617
Singh, Sahjendra N. 9215
Singh, Sheo Ram 842, 8325, 12076
Singh, Sudarshan Pal 9742
Singh, Surjeet 12829
Singh, T. 2112
Singh, U. B. 11217
Singh, U. P. 3614-3616, 8508
Singh, V. K. 10966
Singh, Vikramaditya 13060
Singhal, B. M. 7883, 7901, 13164
Singh Gautam, S. K. 13097
Singhof, Wilhelm 13902
Singmaster, David 224, 10077
Singpurwalla, Nozer D. *See* ★11709
Sinha, A. 4387
Sinha, A. K. 12320
Sinha, A. S. C. 2292, 5593
Sinha, B. B. 1120, 3621
Sinha, B. P. 6459
Sinha, I. 2720, 5361, 5371, 10320
Sinha, Kalyan 4431, 6770, 6779, 14640
Sinha, N. K. 12278
Sinha, Rajendra 8126, 13437
Sinha, S. B. 9255
Sinha, S. C. 6673
Sinha, S. M. 4672
Sinic'kiĭ, L. A. 8061
Sinkhorn, Richard 10301, 10302
Šinkunas, Ju. I. 11209
Sin-Min, Lee 5373
Sinswat, V. 4748, 14820
Šintemirova, G. B. 14829
Siouris, G. M. 9764
Siperšteĭn, B. I. 6920, 14545
Siraja, T. N. 14076
Siraždinov, S. H. 11683, 14054
Sirazetdinov, T. K. 4762
Siri, R. 9557
Sirik, V. K. 7016
Širinbekov, M. 7857, 13363
Sirisena, H. R. 2307
Širinov, K. F. *See* ★4887
Širjaev, A. N. 8837, 11481. *See also* 6, ★3780
Sirotd, T. P. 3506, 8357
Širokov, N. A. 559
Širokov, V. I. 6057
Širokova, I. V. 8807
Širšov, A. I. *See* ★12464, ★12465
Širvanjan, V. L. 2821
Sisakjan, A. N. 9455a-b
Sisarcick, W. C. 580
Siskens, Th. J. 14673
Šiškin, A. A. 5569
Šiškin, G. I. 8030
Šiško, N. P. 10820
Šismarev, I. A. 3283
Sisson, P. N. M. 1969
Sit, Cho Wei 126
Sit, Kwan-Yuk Claire 12962

Sita Rama Chandra Rao, R. 2605
Sitnikov, O. P. 4841
Siu, Yum Tong 3016
Siwek, Edward 1109
Siwiec, Frank 1174, 1185, 6067
Sižuk, P. I. 13061
Sjarova, A. B. 5987
Sjerve, Denis 1223
Sjödin, Gunnar 10239
Sjölin, Per 844, 8144
Sjostrand, Johannes 13285
Skaff, M. S. 3395a-b
Škalikov, A. A. 5732
Skalli, Bernard 14083
Skau, C. F. 8302
Skiba, N. I. 7801
Škil′, M. Ĭ. 8198
Škil′njak, S. S. 9185
Sklansky, Jack 7078
Sklar, A. 2913
Sklepus, N. G. ★4256
Skljadnev, S. A. 13520
Skljarevič, A. N. 12398, ★14815
Škljarov, L. Ĭ. 2418
Skoda, H. 7840
Skolnick, M. H. 9715
Škol′nikov, P. L. 6695
Skomaha, L. N. 8188
Skoog, Ronald A. 8141
Skopec, R. Z. 328, 329
Skopec, Z. A. 327, 7464, 8430. *See also* 12458
Skopin, A. I. *See* ★10339
Skordev, D. 4950, 7230
Skordev, Genčo S. 1206, 8617, 11313, 11314, 13901
Skornjakov, L. A. 7543. *See also* 12819
Skorobogat′ko, V. Ja. 1099
Skorohod, A. V. 1375, 1385
Skorohod, T. A. 8815
Skoug, David 10549
Skovgaard, Ove 3045, 3046, 4038
Skowron, Andrzej 4940
Skrabutėnas, R. 12688
Skrapek, W. A. 13234
Skrjabin, D. D. 4000
Skrydlova, E. V. 8487
Skula, Ladislav 2857
Skumanich, A. 4561
Skupień, Zdzisław 146, 5045
Škurba, V. V. 12197
Skvorcov, A. E. 14104
Skyum, S. 1729
Šlafman, Š. M. 11916
Slaghek, Luigi 13759
Šlahor, Ľudomír 13190
Slater, L. J. *See* ★10699
Slater, Peter 10054
Slaughter, F. G., Jr. 13864
Slavnov, D. A. 1929
Slawny, J. 12075
Sleeman, B. D. 5881, 7909, 7944
Slemrod, Marshall 4320
Slepenčuk, K. M. *See* Slipenčuk, K. M.
Slepian, David 9852
Slesarenko, A. P. 1667, 4366
Slipenčuk, K. M. 8071, 8072
Slisenko, A. O. *See* ★9966
Slivinsky, Charles 4768
Śliwa, J. 274
Śliż, Franciszek 1114
Sljusarčuk, V. E. 775, 10795
Sloane, N. J. A. 2326, 9843, 12361
Sloboda, Fridrich 14354
Slobodenjuk, N. P. 3855
Słowikowski, W. 502
Słowiński, Roman 6936
van der Sluis, A. 9119
Słupecki, Jerzy 4954, 4962, 7206
Slutsky, Steven 4602
Šmadič, K. 12242
Smagin, S. A. 5610
Smagin, V. V. 13631
Smajdor, A. *See* 8059
Smajdor, Wilhelmina 3207. *See also* 8059
Smale, S. 2251, 14756-14760
Small, Charles ★5206, 12693
Small, J. C. 11943
Small, Lance W. 10327
Smalley, L. L. 2113
Smaranda, D. 3609
Smart, D. R. 11122
Smart, J. R. *See* ★236
Smarzewski, R. 9122
Šmatkov, A. A. 10644
Smeers, Yves 4668
Šmelev, V. V. 12192c
Šmel′kin, A. L. 30
Smelov, V. V. ★4456
Šmerk, Jiří 818
Smet, E. 13367
Šmetterer, L. *See* Schmetterer L.
Smeyers, P. 6887
Šmidov, F. I. 2896
Šmigirev, È. F. 2791
Smirnov, A. I. 1779
Smirnov, E. Ja. 9224
Smirnov, G. S. 13427
Smirnov, I. N. 4790
Smirnov, Ju. B. 11804
Smirnov, L. P. ★4570
Smirnov, M. M. ★3132, ★3133
Smirnov, V. I. *See* ★22
Smirnova, T. S. 3883
Smítal, J. 5403
Smith, A. F. M. 3939, 3943, 6383
Smith, A. M. O. ★4279
Smith, C. S. 6300
Smith, Cedric A. B. 6989. *See also* 3939
Smith, Claudia 12623
Smith, D. H. 2539
Smith, F. A. 8564
Smith, H. V. 13065
Smith, Hal Leslie 5590
Smith, Harry F. 7561
Smith, J. D. H. 7682
Smith, J. R. 10338
Smith, James R. 4486a-b
Smith, James T. 13712
Smith, Larry 11329
Smith, M. A. 11039
Smith, Margaret S. 5332
Smith, Martha K. 7555
Smith, Michel 3643, 8588
Smith, P. F. 351, 10309
Smith, P. W. 5882, 10938, 10939
Smith, Patrick L. 14854
Smith, Stephen A. 12372
Smith, Stephen D. 5339
Smith, Truett L. 6998
Smith, W. 2334
Smith, W. C. 6390
Smoljanov, O. G. 29, 8213, 8700, 8776, 13517
Smoluk, Antoni 12163
Smondyrev, M. A. 9455a-b
Smorodinskiĭ, Ja. A. *See* ★2404
Smorodinsky, Meir ★10568
Šmukler, Julija 6968
Šmul′jan, B. L. 14782
Šmyglevskiĭ, Ju. D. *See* ★4493
Šmyrev, V. I. 12206
Smyth, Brian 6038
Smyth, C. J. 12669
Smythe, N. 5352
Smythe, R. T. 8890, 11471
Snaith, Victor P. 1214, 8618
Snedecor, George W. *See* ★6337
Šneĭberg, I. Ja. 13982
Snellman, Håkan 9391, 14621
Snider, Robert L. 2721, 2722, 7531, 10236, 10318
Šnirel′man, A. I. 1326
de Snoo, H. S. V. 10898
Snyder, Donald L. 4101, 4794, 6257
Snyders, J. 14856
Snygg, John 14654
Soares, I. Damião 4542
Sobecka, Zofia *See* ★12430
Sobel, Milton 1449, 1478, 11628, ★11721, 14202
Sobich, Lucja 3911
Sobociński, Bolesław 7347
Sobol′, I. N. 10952
Sobolev, S. L. *See* 6
Sobolevskiĭ, M. E. 5896
Sobolevskiĭ, P. E. 13242, 13631
Sobolevskiĭ, P. I. 5426, 13026
Sobotka, Martha *See* ★7187
Sobotka, Zdeněk 11935
Sochor, A. 95, 2460, 2463, 2464
de Socio, Luciano M. 14701
Söderström, T. 12322
Soeda, T. 7076, 9807
Sofman, L. B. 6250
Sohnius, M. 4378
Sohr, H. 8057
Sokačev, E. 1999
Sokil, B. Ĭ. 9767
Šokin, Ju. I. 6508, 11787
Sokolnikoff, I. S. ★3597
Sokolov, A. A. 4402, 12444
Sokolov, Ju. D. *See* 7178
Sokolov, V. V. 4403
Sokolova, E. G. 13354
Solahjan, S. A. 11865
Solana, J. 2055
Soland, Richard M. 4679
Solecki, Andrzej 12073
Soleĭman, M. A. 11193
Soler, M. 13521
Solev, V. N. 1362
Solheim, Ole A. 7053
Solitar, Donald ★10423
Soljanik, V. F. 14319
Solncev, S. V. 7121, 14892
Solodovnik, M. D. 11923
Sologub, V. G. 4352
Šolohovič, F. A. 3558
Soloman, H. *See* 11536, 11537
Solomencev, E. D. *See* ★924
Solomjak, T. B. 1851
Solomon, A. I. 4477
Solomon, D. L. 8940, 11631
Solomon, Herbert 1448, 3884
Solomon, Ronald 7608, 10388, 10394, 10404
Solonnikov, V. A. 3188, 10884, 13347
Solov′ev, A. D. 11706
Solov′ev, Ju. P. 8658a-b
Solov′ev, V. D. 9999
Solov′eva, E. N. 1676
Solov′yev, A. D. *See* Solov′ev, A. D.
Soltan, V. P. 13597
Soltanov, K. N. 8034
Som, M. M. 2081
Somermeyer, W. H. 14301
Somerville, P. N. 1450
Somes, Grant W. 1495
Sommers, Paul 14739
Sommese, Andrew J. 13147, 13778
Soms, A. P. 3968, 14194
Sommers, P. 6877
Song, Ch'ang Ho 9346, 9347, 9371
Soni, N. K. 3056
Soni, R. P. *See* 3046, 3047
Sonn, Jack 10202
Sonntag, Yves 827, 9081
Sontag, Eduardo D. 4941, 5298
Sookne, David J. 9052-9055
Soomer, V. 5666
Soonets, K. 4277
Sorba, P. 1915
Søreng, Jan 4817, 5846
Sörensen, Kay ★13701
Sorg, M. 9408
Šošitaĭšvili, A. N. 5492
Šostak, R. Ja. ★2370
Sosulin, Ju. G. 4795
Sotomayor, Jorge 1291
Soudack, A. C. 9724
Souesme, P. 9854
Souriau, Jean-Marie *See* ★12420
Sourour, A. R. 13558
Sourrouille, Lucien 14865
Southward, G. Morris 1457
Sova, Miroslav 3499, 10796, 10797
Sowey, E. R. 11728
Soyster, A. L. 2156, 2188a-b, 9688
Sozutov, A. I. 10420
Spain, P. G. 5898, 13592
Spak, F. P. 9199
Spal, J. 14855
Spasokukockaja, S. A. 633
Spătaru, Aurel 8906
Speckman, Janace A. *See* ★4029
Speder, J.-P. 7843, 13122, 13123
Spedicato, E. 11759, 14787
Speer, E. 1991
Spehner, Jean-Claude 7664
Speisman, Gerald 12099
Spellman, Dennis 2817
Spence, Edward 12540
Spencer, Christopher B. 7661
Spencer, D. C. 8739, 11420
Spencer, Joel ★2470, 2474, 2483, 7322, 12707
Spencer, Thomas 2000, 9530
Spencer Brown, G. ★4892
Spenser, Dž. *See* Spencer, Joel
Speranskiĭ, D. V. ★4858
Speranza, Francesco *See* 8457
Sperb, R. P. 752
Sperner, Emanuel, Jr. 3141
Spesivõhh, V. 5387
Speyer, Jason L. 7086, 12299, 14373
Spiegel, E. A. 9308
Spiegel, Eugene 417, 2485, 2774
Spiegel, Wolfgang 491
Spielberg, Kurt 2191, 6949
Spielman, Jeffrey L. 6223
Spielvogel, E. R. 6674
Spielvogel, L. Q. 6674
Spiga, G. 4467
Spigler, R. 10709
Spillers, William R. ★9270
Spindel, Philippe 6858
Spingarn, K. 2267
Spiteri, Pierre 11764
Spitkovskiĭ, I. M. 1007
Spitzer, Frank 3887
Spivak, M. A. *See* ★9826
Spivak, Michael 8530
Spohn, Herbert 6780, 10569
Spoletini Cherubini, Alessandra 5353
Sposito, V. A. 2202, 3987, 6390
Sprekels, J. 11817
Sprent, P. 3937. *See also* 3939
Sprindžuk, V. G. 5111, 5125, 7371. *See also* 6
Springer, T. A. 10385
Springsteel, Fred Neil 6579
Sprinkhuizen-Kuyper, I. G. 3278
Sprott, D. A. *See* 1447
Spulber, Dorian 2733, 7446
Spurrier, John D. 14232
Spyrou, N. 6682
Squillard, B. 12088
Sra, K. S. 11902
Šragin, I. V. 1039
Srebrny, M. 89. *See also* ★2412
Srebro, Uri 13075
Sreenivasiah, I. 4357
Sridharan, M. R. 2520
Srinath, K. P. 1434, 8943, 8944
Srinivas, K. 4333
Srinivas, M. D. 2027
Srinivasan, S. 245
Srinivasan, S. K. 11575
Srinivasan, T. N. 9631
Srinivasan, V. 2189, 4606, 6436
Srivastava, H. M. 3053, 3313, ★6322, 7902, 7911, 10713
Srivastava, L. M. 1852
Srivastava, M. S. 1479, 3942, 6411
Srivastava, Pramila 11262
Srivastava, S. N. 13077
Srivastava, S. R. 6389
Srivastava, Sunil Kumar 10706
Srivastava, Vinai K. 9552
Srivenkataramana, T. 1434
Sročko, V. A. 8394
Śródka, Tadeusz ★3775
Srour, David 3918
Stacey, P. J. 10480
Stachel, Hellmuth 14492
Stachow, E. W. 1910
Stackelberg, Olaf P. 10177
Staël von Holstein, Carl-Axel S. *See* ★8768
Staffans, Olof J. 10921
Stafney, James D. 837
Stahl, J. *See* 2138
Stahl, Saul 122, 10060
Stahl, Stanley H. 7233
Stahn, Heinz 40
Staiger, Ludwig 4818
Staĭkos, V. A. 5537, 5588
Stallings, John ★3705, 13921

Stam, Aart Johannes 11464
Stamate, I. *See* 8059
Stamenov, D. B. 9476a-b
Stamm, J. C. 11785
Stammbach, Urs 10439
Stammler, Ludwig 308
Stamnes, Jakob J. 1883
Stampacchia, G. 1853, 13652
Stampfli, Joseph 1011, 8339. *See also* 19
Stănăşilă, Tatiana 3826
Stancu, D. D. 3226
Stancu-Minasian, I. M. 2219
Stanek, Oleg 13971, 13972
Stanford, Robert E. 4684
Stanilov, Gr. 13815
Stanjukovič, K. P. ★1830, 6855
Stankiewicz, J. 2973
Štan'ko, M. A. 1232
Stanković, B. 5527
Stankovič, Ljubomir 493
Stankus, E. 5136
Stanley, Richard P. 111
Stanojević, Časlav V. 13435
Stanton, Charles 3765
Stanton, Charles M. 2989
Stanton, R. G. 150, 2496, 2497, 2501, 2519, 2575, 5004, 10043, 10052, 11750. *See also* ★2471
Stanton, Robert J. 8173
Stanyukovich, K. P. *See* Stanjukovič, K. P.
Staples, John 3524
Stapleton, G. A. 9759
Starbuck, R. R. 14201
Starcev, A. N. 6999
Stark, A. E. 12247
Stark, E. L. 830. *See also* ★7162
Stark, H. M. 7429, 10206. *See also* 16
Stark, Marceli *See* ★2407
Starke, Peter H. 14444
Starobinskiĭ, A. A. 6880
Starostina, L. F. 2997
Starr, Martin K. 6926
Starr, Ross M. 6908
Staruszkiewicz, A. 11206
Starzeński, Oskar 4028
State, E. Y. 10615
Stati, Sorin ★9174
Štatland, B. S. 11478
Štatland, È. S. 14080
Statulevičius, V. 3819, 3820, 11461, 11697
Stavrakas, N. M. 8549
Stavre, P. 8511, 8515
Stavroudis, Orestes N. 11984
Stavskiĭ, M. Š. 10216, 10217
Stear, E. B. 4770
Stearns, R. E. 12222
Stebe, Peter F. 403, 7633
Stecher, Michael 8032
Stečkin, B. S. 12534 *See also* ★2470
Steding, Thomas L. 9790
Ştefănescu, Anton 12232, 12233
Stefanescu, I.-S. 6727
Stefani, Gianna 12140
Stefani, Stefano 5071
Steffen, K. 5951
Steffens, Karsten 183
Stegall, C. P. 3368
Stegbuchner, Hans 5480
Stegeman, J. D. 10980
Stegenga, David A. 8340
Stegun, Irene A. *See* 4033-4041
Stehlé, Jean-Luc 7841, 7842
Stehney, Ann K. 9585
Steigenberger, Joachim 14482a-b
Steiger, W. L. 14043
Steiglitz, Kenneth 14424
Stein, E. M. 3290, 8133a-c, 10499
Stein, Josef 4039
Stein, Junior 5536
Stein, Michael R. 279
Stein, R. B. 14807
Stein, S. K. 2901, 6468
Steinberg, L. 11174
Steinberg, Robert 2827
Steinebach, J. 14302
Steiner, J. M. *See* 11965
Steiner, Siegried 8509
Steinfeld, Otto 199
Steinhausen, Günter ★233
Steinig, John *See* 17
Steinlage, R. C. 8544
Steinmann, O. 2001, 14622
Steller, E. T. *See* 12422
Stellmacher, I. 1756
Stempkovskaja, A. A. 3314
Stene, Jon 6990
Stepanec', O. Ĭ. 8104
Štěpánek, Petr 2462
Stepanenko, P. T. 3608
Stepanenko, V. N. 9707
Štěpánková, Olga 1741
Stepanov, A. V. 9532a-b
Stepanov, B. M. 7098
Stepanov, G. D. 13638a-b
Stepanova, N. N. 1790
Stephanidis, N. K. 1102
Stephanopoulos, George 4106
Stephens, M. A. 11636. *See also* 11536, 11537
Stephens, P. J. 5142, 5143
Stephenson, R. M., Jr. 6092, 11276, 13848
Stepin, A. M. 10800. *See also* 6
Stepleman, Robert S. 9076
Stepp, James W. 12929
Sterboul, F. 134
Sterman, George 12002
Stern, M. 189, 2557
Stern, M. S. 6750, 6797
Stern, Manfred 12582
Stern, R. J. 7042, 8650
Sternheimer, D. 1906, 8735, 13994
Sternin, B. Ju. 6215, 14013
Stetkaer, Henrik 11414
Stetter, Hans J. ★1531, ★14381
Stevens, John G. 10273
Stewart, G. W., III 4085
Stewart, H. Bruce 2044
Stewart, Ian 7563
Stewart, J. M. 9555
Stewart, M. James 7309
Stewart, N. F. 4725
Stewart, Patrick N. 2712, 2713, 7574
Stewartson, K. 11950
Stey, G. C. 6781, 6782
Steyaert, J. M. 4183, 12501
Steyn, H. S., Jr. 11650
Stiassnie, M. 1844
Stiefel, E. *See* 7157
Stieffel, E. *See* ★14484, ★14485
Stiffler, J. J. 10050, 14292
Stil'bans, L. S. *See* ★2403
Stillwell, J. C. ★2411
Stingl, Volker 2786
Štípl, Miloš 11914
Stitzinger, Ernest L. 12849
Stocke, Britt-Marie 10521
Stockiĭ, È. D. 4200
Stockmeyer, L. 6549, 6557, 14472
Stoer, Josef 1605
Štogrin, M. I. 1068
Stoia, Manuela 10264
Stoilow, S. ★12456
Stojaković, Zoran 2858
Stojan, Ju. G. ★13733
Stojan, V. A. 1799
Stojanov, Ĭordan 11501
Stojanov, N. V. 2234
Stojanovič, M. 1616
Stoka, Marius I. 1440, 3637, 8789. *See also* 8457
Stokely, Ernest M. 7100
Stoker, J. J. ★1768
Stokes, Arnold 691, 3530
Stoljarov, A. V. 8475, 8492
Stoljarov, S. N. 4339
Stoljarov, V. O. 1797
Stoljarova, L. P. 12785
Stoll, Manfred 5488, 10625
Stölting, Rolf 12871
Stoltz, Robert A. 4275
Stolyarov, S. N. *See* Stoljarov, S. N.
Stolzenberg, Gabriel 599
Stone, Charles J. 6247
Stone, Mervyn 3944, 3974, 3988, 3989
Stora, R. 1973, 7849
Storåkers, B. 9256
Storcai, V. F. 10960
Storch, U. ★294
Stormark, Olle 13129
Storoženko, S. A. 1959
Storoženko, V. O. 9229
Storozhenko, S. A. *See* Storoženko, S. A.
Stout, Edgar Lee 3028, 10671, ★11066
Stout, Lawrence Neff 2751, 10015
Stout, William 8790
Stoyan, D. 11560, 14154, 14160
Strahov, V. N. 2133, 4565, 7807
Strahovenko, V. M. 9436
Straley, Tina H. 443
Stralka, Albert 452
Strambach, Karl 1215, 2649, 2861
Strang, Gilbert 1668, 11816, 13666. *See also* 18
Strano, Rosario 293
Stránská, C. 13428
Strassen, Volker 14442
Strasser, Helmut 1445
Strătilă, Serban 3431
Straub, Erwin *See* 11711
Straube, Bernd 2356
Straughan, B. 1854
Straus, E. G. 5168, 12541
Strauss, M. 9586
Strauß, W. 6268
Strauss, Walter A. 3184
Strawderman, W. E. 3898
Strawther, D. 5806
Stražev, V. I. 6695
Streater, R. F. 14596
Streb, W. 7557
Strebel, Ralph 5319, 10421
Strecok, Anthon J. 4040
Stredder, Peter 3772
Streeter, T. D. 4098a-b
Strehmel, Karl 14382, 14383
Streit, Franz 3970
Streit, Roland F. 9035
Strel'cov, S. V. 8398
Strichartz, Robert S. 8155, 8751
Stricker, Christophe 6269, 11491, 11492
Striebel, Charlotte ★2315
Striko, Jelisaveta Kovač 10395
Strnad, Pavel 9992
Strobl, G. 1985
Strocchi, F. 4438, 6759, 14619
Stročik, T. V. 5448
Stroescu, Elena 8376
Strogalov, S. S. 12756
Strok, M. 1156, 1157, 1159
Strok, V. V. 2521
Strömberg, Jan-Olav 7790
Strommer, J. 1071
Strong, H. R. 9147
Stroock, D. W. 3790
Stroth, G. 2787, 5333, 5334
Stroud, A. H. 1539
Strubecker, Karl 5989, 8490
Strutt, Joseph 11328
Strygin, V. V. 13249
Strzelecki, E. 11024
Stuart, C. A. 6812
Stubberud, A. R. 4786
Stubbs, Patricia A. 2676
Stuck, B. W. 4059
Stucki, Leon G. *See* ★4163
Stückrad, Jürgen 2640, 12757
Studden, William J. 6395, 11676
Stuhler, Ulrich 316, 7649, 12666
Štukar', V. L. 364
Stummel, F. 828, 9089
Stumpf, H. *See* Stumpf, Helmut
Stumpf, Harald 2002, 2003
Stumpf, Helmut 1818, 1819
Sturges, Leroy 6676
Stutz, John 3018
Subba Rao, P. V. 1762
Subba Rao, T. 9020
Subba Rao, V. 3208
Subbotin, A. I. 2233a-b, 9699
Subbotin, Ju. N. 13395
Subbotina, N. N. 2233b
Subieta, Kazimierz 1743
Šubin, M. A. 10816
Subrahmanian, H. 5381
Subrahmanyam, M. B. 8393
Subrahmanyam, P. V. 3208
Succi, Francesco 2762
Succi Cruciani, Rosanna 2761
Sucheston, Louis 1368, 1369, 3840, 3841, 5805
Suchoń, Wojciech 2419, 2420, 4973
Suciu, Ion 11476
Sud, Krishan 621, 14604
Sudarshan, E. C. G. 1974, 6817, 12008. *See also* 6831
Sudbury, Aidan 14168
Sudderth, William D. 11483
Sudhakar, Divakaruni P. 13685
Sudo, Masaki 615
Sūdžiūtė, D. 9691
Suffridge, T. J. 5917
Sugahara, Kunio 3627
Sugg, Merritt N. 14190
Sugisaka, Masanori 2308
Sugiura, I. 8408
Sugiura, Ichiro 9750
Sugiyama, Kazuo 2548
Šugrin, S. M. 3143
Suguri, T. 41
Suhadolc, Anton *See* 7148, 7149
Suhanov, A. A. 2829
Suharev, A. G. 14350
Suharev, Ju. P. 11198
Suhov, Ju. M. 4449, 6805
Şuhubi, Erdoğan S. ★6623
Suita, Nobuyuki 13142
Šukri, È. M. 8808
Sukup, Dwight V. 3088
Šukurjan, Ju. G. 6563
Sulaberidze, T. G. 11480
Sulanke, R. ★1274
Sularie, Mircea 11864
Šul'ga, D. D. 5793, 8227
Šul'geĭfer, E. G. ★5309
Šul'gin, A. M. 10768
Suliciu, I. 9251, 9257
Suljagić, Salih 970
Šuljar, M. A. 336
Sullivan, Dennis 1304, 3759, 6163, 11345, 13915
Šul'man, V. S. 964
Sultan, A. 6090
Sultan, M. A. 7061
Sultanov, A. G. 10094
Šumilov, A. N. 8430
Summerhill, R. R. 1228
Summers, D. 4306
Sumner, David P. 5062
Sunada, Toshikazu 3007, 7866
Sunahara, Yoshifumi 12323
Sunakawa, Sigenobu 1986, 9537
Suncev, U. N. 14836
Sund, Terje 10477
Sundararaman, D. 3030
Sundararaman, T. R. 5086
Sundaresan, Kondagunta 901
Sundareshan, Malur K. 12307, 14837
Sunday, J. G. 177
Šunkov, V. P. 10417, 10420. *See also* ★5322
Sunouchi, G. 8122
Sunyach, C. 8335
Suominen, Kalevi 2651
Suprun, V. M. 1398
Suprunenko, D. A. 10438
Šur, M. G. 3863
Suranyi, P. 6728
Šurenkov, V. M. 1409a-b, 6291, 8856, 8907, 8914, 8928
Suri, Hira L. 7087. *See also* 7088
Surma, Stanisław J. 4923, 9973a-b
Surmanidze, O. È. 5372
Surmont, J. 14356
Survila, P. 6271
Suryanarayana, D. 251, 2567, 2605, 12626
Susarla, V. 6342
Suščanskiĭ, V. 10427, 12898
Suškov, B. G. 7145
Suškov, Ju. A. 2549
Suškov, V. S. 14280

Susloparova, G. P. 13713
Sussmann, Héctor J. 7981, 13964
Šůstal, Jiří 4877, 7146
Šustov, A. V. 12926
Suszko, Roman 12521
Suter, Ulrich 8631, 11324
Sutherland, W. A. 11346
Sutter, J. *See* ★9718a
Sutton, B. R. 4504
Suttorp, L. G. 14606
Suvorčenkova, G. A. 3080, 13634
Suvorov, B. P. ★14469
Suvorov, N. M. 444
Suvorov, N. P. 2330
Suvorova, I. G. 2330
Suwa, Tatsuo 6214
Suyambulingom, C. 1421
Suzuki, Gütiro 14191
Suzuki, Hideo 12175
Suzuki, Hiroshi 2309
Suzuki, Masuo 13632, 14693
Suzuki, Noboru 976
Suzuki, Shôsuke 2837
Suzuki, Tetsutaro 589
Švab, N. D. 3879
Svanes, Torgny 7490
Švarc, A. S. 4388, 14632
Švartin, S. M. 1742
Švec, Alois *See* 8457
Švedenko, L. A. 10973
Sveklo, L. V. 13364
Svešnikov, A. G. 9929, 11993
Svešnikova, G. L. 13745
Svetlichny, George 2004
Švidkaja, G. D. 11567
Svin'in, S. F. 10944
Svirid, G. P. 4278
Svirskiĭ, I. V. ★9271
Swaminathan, Srinivasa *See* ★11112
Swaminathan, V. 13438
Swamy, M. N. S. *See* ★12403
Swamy, P. A. V. B. 8969
Swan, George W. 2252
Swanepoel, J. W. H. 11684, 14264-14266
Swanson, C. A. 13277
Swanson, Leonard G. 1090
Swart, Johan 13879
Swartz, Charles 503, 3396
Swartz, G. Boyd 1436
Sweedler, Moss Eisenberg 10312
Sweeney, W. J. 1313
Światak, H. *See* 8059
Świątkowski, Tadeusz 8543
Swick, David A. 9016
Swinnerton-Dyer, H. P. F. 5240
Swint, David O. 14496
Switzer, Paul 3960
Sworder, David D. 12335, 14861
Syčeva, E. P. ★2370
von Sydow, Björn 3237
Symm, G. T. 1672
Symonds, R. G. 12829
Syroid, I. P. *See* Siroid, I. P.
Sysło, Maciej M. 7323
Sysoev, L. P. 2198
Sytseva, E. *See* Syčeva, E. P.
Szabados, J. 3227, 3245, 5714
Szabó, Z. 14195
Szafraniec, F. H. 13599
Szajowski, K. 5013
Szankowski, A. 8245, 13536, 13542
Szarski, J. 765
Szarski, Jan *See* ★12430
Szász, Ferenc 5066, 5287, 5288, 7521
Szász, G. 190, 438
Szász, Pál ★1072
Szczarba, R. H. 10485
Szczepankiewicz, Eugeniusz 11615, 11616, 11637, 11693a-b, 11694, 14044
Szebehely, V. *See* ★7157, ★14484, ★14485
Szegő, G. P. 5949
Székely, G. J. 7723, 11467
Szekeres, P. 4525
Szemerédi, A. 5167
Szemerédi, E. 2614, 10183, 12609
Szendrei, Ágnes 10110
Szepesvári, István 9104
Szeto, George 10342, 12817
Szidarovszky, F. *See* 2138
Szilágyi, Miklós 12916
Szilard, Andrew L. 12607
Szirtes, Thomas 10122
Szmidt, J. 5383
Sz.-Nagy, Béla 5863, 8330
Sznajder, S. 3401
Sznitko, Wanda 584
Szocińska, Ewa 8867
Szociński, Brunon 13752
Szpirglas, Jacques 11482
Szpiro, Lucien 12784
Sztaudynger, Jacek 12182
Szu, H. H. 2038
Szwarc, Włodzimierz 2144, 4646
Szwiec, Wiesław 12240
Szybiak, Andrzej 3618
Szymański, Andrzej 1167
Szymanski, T. G. 6568, 9155
Szymiczek, K. 234
Szynal, Dominik 3911

T

Tabarrok, B. 4257
Tabensky, R. 9587
Taberski, Roman 13433, 13452
Tabor, Józef 5657
Tabyšov, R. 3333
Tachibana, Shun-ichi 6041
Tacĭĭ, R. M. 7927
Tacker, E. C. 9805
Tadeusiewicz, Ryszard *See* ★4210
Tagare, S. G. 14567
Tagliavini, Carlo *See* ★9174
Taguchi, Yukio 9462
Taha, Hamdy A. ★4647
Taiani, Geraldine 7992
Taibleson, Mitchell H. 5195
Tainiter, Melvin 7324
Taira, Kazuaki 10843
Tait, W. 6764
Takacs, D. V. 2254, 6595
Takács, Lajos 11568, 11569
Takagi, Ryoichi 5513, 6036, 13798
Takahashi, Hidewo 14595
Takahashi, Hideyuki 14893
Takahashi, Ken-ichi 631
Takahashi, Koiti 4433
Takshashi, Moto-o 97. *See also* 7217
Takahashi, Reiji *See* 9915
Takahashi, S. 2283, 14055
Takahashi, Shin-ichi 12302
Takahashi, Tsunero 480
Takahashi, Yasuji 5427
Takahashi, Yoichiro 4457
Takahashi, Yoshinori 2059
Takahashi, Yukio 2180
Takahasi, Ken-iti *See* Takahashi, Ken-ichi
Takahasi, Reĭdzi *See* Takahashi, Reiji
Takahasi, Sin-ei 13581
Takai, Hiroshi 8309
Takamatsu, Yuzo 4848
Takano, Katsuo 6290
Takano, Kyoichi 10720
Takaoka, Tadao 4204
Takeda, Shoichi 7062
Takemoto, Hideo 5851
Takeno, Hyôitirô 14735
Takens, Floris 6205, 11392
Takesaki, Masamichi 948, 5842, 8303
Taketa, Kiyosi 2779
Takeuchi, Akihiro 7147
Takeuchi, Kei 11622, 11623
Takeuchi, Masaru 616
Takeuchi, Shigeru 7877
Takeuchi, Yu 14178
Takeuti, Gaisi ★4977, 12492
Takijima, Kunio 589, 13063
Tal', A. A. 6561
Talagrand, Michel 8146, 10534
Talaljan, A. A. 5724, 7175
Talaljan, F. A. 13448
Talamo, Rodolfo 8565
Talanova, Z. P. 13369
Talbot, A. 13386
Taldykin, A. T. 10822
Talenti, Giorgio 8006, 8025
Tall, F. D. 4987, 7727, 11264
Talpaert, Yves 2122
Talpur, M. N. M. 7811, 13099
Tam, K. W. 3385
Tamari, Dov 7665
Tamir, Arie 9668
Tamm, Ebu 2199
Tamme, È. È. 4137
Tamrazjan, R. A. 10030
Tamrazov, P. M. 539
Tamura, Hisataka 11966
Tamura, K. 6962
Tamura, Ryoji 1466, 1474
Tamura, Syuji 13407
Tamura, Takayuki 2853
Tan, Eng Tjioe 7641
Tan, Harry H. 14874
Tan, Keng Teh 5326
Tan, Kok Keong 6065
Tan, S. L. 8659
Tan, S. T. 4195
Tan, Sin Leng 11372
Tan, W. Y. 1483
Tanabe, Kunio 4078
Tanaka, Azuma 9462
Tanaka, Chuji 783
Tanaka, Genjiro 4870
Tanaka, Hidematu 7816
Tanaka, Kohkichi 7147
Tanaka, Shôtarô 7248e, 7248g, 7248i, 10102
Tanaka, Yoshio 3665
Tanana, V. P. 6497, 11774, 14666
Tancredi, Alessandro 13153
Tandori, Károly 3282, 8130
Taneja, V. S. 6411
Tang, Min Ming 10818
Tango, Hiroshi 7491
Tani, Atusi 9326
Tani, Tsugio 13837
Tani Corsi, Gabriella 7617
Taniguchi, Kenichi 9148
Tanis, Elliot A. ★14169
Tannenbaum, Peter 10468
Tanno, Shûkichi 8526
Tanny, David 14135
Tanny, Stephen M. 10034
Tanre, Daniel 11272
Tan Sin Leng *See* 23
Tapia, R. A. 1606, 4117
Tapiero, Charles S. 6926
Tapley, B. D. *See* ★7157
Tappe, Jürgen 5348
Tarakanov, V. E. 3793
Tarasov, R. P. 14568
Tarasov, V. G. 4475
Tarasov, V. V. 14886
Tardiff, Robert M. 11294
Tariq, Nessim 14706
Tarjan, Robert Endre 2508, 12557
Tärlung, Sten-Åke 11878
Tarnopol's'kiĭ, V. G. 10908
Tarr, David G. 4603
Tarski, J. 4434, 9403
Tartakoff, David S. 1312
Tartar, Luc 11076
Tashiro, Yoshihiro 6028
Tasi, J. 1777, 1778
Tašmanov, H. T. 14161
Tassa, U. 2220
Tate, J. 2393, 7380, 10204
Tauber, Gerald E. 9588
Taufer, Jiří 9090
Taurinskas, M. V. 6716
Taussky, Olga 5178
Tăutu, P. 6333, 12244
Tauvel, Patrice 7566
Ta Văn Dĩnh 11798
Tayler, A. B. ★9286
Taylor, Alan D. 12530
Taylor, B. A. 521, 5481
Taylor, D. C. 944
Taylor, D. E. 12870
Taylor, D. L. 11794
Taylor, Elizabeth M. 7420
Taylor, Fred J. 9806
Taylor, G. C. 1525, 6435, 11570, 14294
Taylor, G. D. 10948
Taylor, Howard M. 14111
Taylor, I. S. 2343
Taylor, J. C. 2999
Taylor, J. L. 5837
Taylor, J. R. *See* Taylor, John R.
Taylor, James H. 9824
Taylor, Jean E. 8421
Taylor, John B. 3977, 6438
Taylor, John C. 8892
Taylor, John G. ★14704
Taylor, John R. 6746
Taylor, Keith F. 12965
Taylor, Michael E. 3517
Taylor, P. D. 13532
Taylor, P. J. 1678
Taylor, R. L. ★14060, 14537
Tchoń, Krzysztof 7011
Tchrakian, D. H. 2019, 2114
Tèbyrcè, E. I. 2714
Tefteller, S. C. 645
Teghem, J., Jr. 11571
Teh, H. H. 12569
Teissier, Bernard 3023, 5496, 10247. *See also* ★2662
Teitelboim, Claudio 4535, 12128
Teixeira, A. F. da F. 2081
Tejumola, Haroon O. 13215, 13218, 13219, 13221, 13232
Teleman, Costache 11181
Teleman, Nicolae 6152
Teleman, Silviu 950
Telemtaev, M. M. 147
Telksnys, Laimutis 9012b
Tellenbach, U. 2009
Tel'ner, K. 3460
Temam, R. 759, 9343
Temešvari, Agota 13729
Temirbaev, K. 695
Temljakov, V. N. 13434
Temme, N. M. 1548
Tempel', F. G. 3066
Templeton, J. G. C. 6318
Tenenblat, Keti 8521
Tenengol'c, G. M. 7110
Tenney, Richard L. 101
Tennison, B. R. 7474
Tenti, G. 6834
Teo, K. L. 9814
Teodorescu, P. P. 4258
Tepel, J. W. 9501
Teplickiĭ, M. G. 9680
Teplins'kiĭ, Ju. V. 3099, 3100
Teplitskii, M. G. *See* Teplickiĭ, M. G.
Teply, Mark L. 5302
Terenzi, Paolo 8246
Tereščenko, V. Ja. 11927
Terkelsen, Frode 2931
Terleckiĭ, A. Ja. 11985
Terleckiĭ, Ja. P. 2094
Terno, Johannes 14790
Terpe, Frank 10923
Terra, A. I. 10090
Terracher, Pierre H. 8289
Terras, A. 5192
Tersenov, S. A. 729
Terwiel, R. H. 1379
Terzioğlu, Tosun 8231
Těšitelová, Marie *See* ★11870-★11872
Tesler, G. S. 1545
Tessier, R. 1433
Tessun, Franz 2823
Teukolsky, Saul A. ★6847
Thakare, N. K. 110
Thalheimer, W. 8880
Thämelt, Wolfgang 339
Thas, C. 3603
Thas, J. A. 7290a-b, 11168
Thatcher, J. W. 4168, 10373, 14445
Thatcher, R. W. 4147
Thathachar, M. A. L. 12307
Thayse, A. 4849
Thelidze, M. G. 632
de Thelin, François 1049
Theobald, C. M. 2694, 11654
Theocaris, P. S. 9237, 11737
Theodorescu, Radu 11446
Theumann, Alba 6747
Thickstun, Thomas 8635
Thickstun, W. R. 12029
Thierrin, G. 7677, 9184, 10341
Thirring, Walter E. 14638
Thiruvengadam, K. 8915
Thisayakorn, C. 9748
Thomas, B. V. S. 13844. *See also* ★9918

Thomas, C. B. 13952
Thomas, D. K. 10593
Thomas, Donald H. 10942
Thomas, Emery 11330
Thomas, Glânffrwd P. 108
Thomas, H. 12095
Thomas, Ivo 9974. *See also* 12446, 12447
Thomas, J. B. 14105
Thomas, Johannes 13207
Thomas, Lawrence E. 6783, 12050
Thomassen, Carsten 2541, 10078
Thomée, Vidar 14393
Thompson, A. C. 5802
Thompson, B. W. 14347
Thompson, David 11876
Thompson, H. B. 12952
Thompson, H. R. 7152
Thompson, John G. *See* 2384
Thompson, M. L. 5531
Thompson, Robin 14812. *See also* 3939
Thompson, R. C. 2682, 7503, 12804, 12805
Thompson, Richard A. 14463
Thompson, S. L. 11940
Thompson, Travis 13849
Thompson, W. A., Jr. 1515
Thompson, William E. 1516
Thomsen, I. 3903
Thomson, B. S. 10537
Thomson, James 5891
Thorbergsson, Gudlaugur 1137
Thorne, Charles L. 5443
Thorne, Kip S. ★6869
Thornett, M. L. 14257
Thorpe, J. A. ★1273, 8522
Thulasiraman, K. 7317a-b
Thun, H.-J. 14615
Thurston, W. P. 1210, 13934
Tiao, George C. ★6362, 14214, 14276. *See also* 3944
Tietäväinen, A. 5147, 12610
Ţigan, Ştefan 9677
Tihomirov, V. M. 29
Tihonenko, L. Ja. 6632
Tihonov, A. N. 628. *See also* 9929, 12460
Tijdeman, R. 10142, 12640
Tijms, H. C. 14151
Tikhonenko, L. Ia. *See* Tihonenko, L. Ja.
van Tilborg, Henricus Carolus Adrianus ★2329, 10044
Timčenko, N. A. 3117
Timmermann, W. 11073
Timofeev, B. B. *See* ★9919, ★9920
Timofeev, G. N. 13760
Timofeev, N. M. 12701
Timonov, A. A. 11774
Timošenko, E. I. 10426
Timošenko, S. P. ★12466, ★12467
Timošenko, V. V. 8460, 8516
Tindemans, P. A. J. 4474
Tineo, Antonio ★8610
Ting, T. W. 11807
Tinhofer, G. 2516
Tintner, Gerhard ★6379, 9635
Tipler, Frank J. 6878
Tippenhauer, U. 5684, 13396
Tirasupa, Yupaporn 5376
Tironi, Gino 3640
Tischler, David 3736, 8672
Tischler, R. 8672
Tissier, Gilles 7828
Titarenko, Ju. V. 8689, 8690
Tits, Jacques 12924. *See also* 14
Titterington, D. M. 6396
Titulaer, U. M. 6831
Titus, Charles J. 3628, 6166a
Tiwari, R. 6856, 12115
Tjøstheim, Dag 11496, 11497
Tjurikov, E. V. 13806
Tjurin, A. N. 323, 2664, 12791
Tjurin, G. A. 14671
Tjutin, I. V. 14593
Tkač, G. P. 13746
Tkačenko, V. A. 3478
Tkalič, E. F. 2281, 9678
Tkalič, V. S. 2281, ★4220, 9678
Tkebučava, R. S. 14088
To, T. O. 10538
To, Ting-On 5794
Tobol′cev, A. M. 763, 764
Toda, Hirosi 3731
Toda, Morikazu 4452, 4453
Toda, Nobushige 7783
Todd, Aaron R. *See* 12422
Todd, John 14335
Todd, Michael J. 6965, 7299
Todorov, A. N. 10259
Todorov, I. T. 12045a-b, 14618
Todorov, Kalčo Ž. 12939, 12940
Todorov, P. G. 5450
Todorov, T. S. 1978
Todorov, Todor D. 5702
Toffin, Philippe 12694
Tognetti, Keith 2253
Tognoli, A. 3012, 10652-10654
Toh, K. H. *See* 23
Tohma, Yoshihiro 4850, 7139, 9874
Toida, S. 12374, 12387
Tokarz, Marek 10012
Tokuyama, Michio 9547
Tolčan, A. Ja. 4851
Tolhoek, H. A. 6748
Tolimieri, Richard ★2877, ★2878
Tölke, Jürgen 13749, 14489
Tollefson, Jeffrey L. 3703, 6150
Tolstobrova, N. I. 1567
Tolstov, Georgi P. ★13429
Tolstova, G. D. 13741
Tomás, Francisco 7238
Tomasini Massia, Maria Grazia 10582
Tomin, N. G. *See* 22
Tominaga, Hisao 7526, 7532
Tomita, Hiroyuki 12080
Tomita, Y. 7076, 9807
Tomiyama, Jun 8310, 13579
Tomizawa, Nobuaki 4641
Tomkins, R. J. 3825
Tomkinson, M. J. 5359
Tomov, Valentin 11830
Tomová, Eliška 2528
Ton, Bui An 755, 13653
Tondeur, Philippe ★1250
Tong, H. 9020
Tonge, D. G. 4727
Tong Van Duc 11225
Tonîca, V. S. 2418
Tonkov, E. L. 8389
Tonojan, V. S. 9264
Toomer, Graham Hilton 11316
Toothaker, Larry E. 14251
Topa, S. 11301
Topa, Stefan *See* 8059
Topaloglu, Toros 2274
Topenčarov, Vladimir V. 373, 7262
Topkis, Donald M. 12587
Topoljanskiĭ, D. B. 5770
Topsøe, Flemming 500, 5428, 7730, ★10546, 13019. *See also* 15
Topurija, S. B. 2975, 13449
Toraev, A. 13274
Torchinsky, A. 5736
Torelli, Alessandro 5650
Törner, Günter 358, 5964, 7537. *See also* 13720
de la Torre, Alberto 5867
Torre, Anna 11170
Torre, Vincent 12245
Tortorici, M. 9046
Tortrat, Albert 11523, 13027
Toscani, Giuseppe 8838
Tošev, B. 485
Toubassi, Elias 5369, 10443
Tougeron, Jean-Claude 3011, 3747, 8706
Tournemine, Georges 1837, 9278, 9342
Tourrenc, P. 12030
Touzón Pérez, Constantino 3688
Towber, Jacob 10267
Townsend, James T. 12255
Tozzi, Anna 13892
Traas, C. R. ★9348
Traczyk, Tadeusz 7114
Trahern, Charles G. 6766
Trahtenbrot, B. A. 12498
Trahtenbrot, M. B. 4172
Tran, Lanh Tat 8823
Tran Duc Mai 5082-5084
Trangenstein, J. A. 6490
Trần Hữu Phát 4392
Trapp, George 14876
Trapp, John A. 4330
Trappl, Robert *See* ★4731, ★4732
Traub, J. F. 1583, 4031, 14407. *See also* ★14417
Trautman, A. 14708
Trautmann, Günther 592
Travis, C. C. 3193, 10733, 13198
Travkin, S. I. 2172
Traynor, Tim 7743
Treadway, Arthur B. 9632
Trebels, Walter 838
Treder, Hans-Jürgen 2115, 2118, 4518, 9488, 9589a-b, 12148. *See also* 39
Treger, R. B. 10246
Trehan, S. K. 4514-4516
Trehan, Swaran 1175, 3255
Treĭvas, V. G. 9765
Tremayne, Andrew R. 6440
Trémolières, Raymond 6937
Trench, William F. 8136
Trendafilov, I. D. 5202
Trenogin, V. A. 1036, 1037, 14364
Treskunov, A. L. 708
Tretkoff, Marvin 5355
Trèves, François 5575, 8001, 14014. *See also* 15
Tribel′, Hans *See* Triebel, Hans
Tricomi, F. G. *See* 3040-3045, 4051-4054, 14304
Triebel, Hans 922
Trifonov, D. A. 9463a-b
Trigub, R. M. 13455
Trimble, S. Y. 5465
Trione, Susana Elena 8275, 8278
Tripathy, N. 3216
Tripp, John C. 5833
Trivedi, H. K. N. 6013, 13737a-b
Trivedi, T. N. 5760
T″rkalanov, K. D. 7666
Trnková, Věra *See* Šedivá-Trnková, Věra
Troallic, Jean-Pierre 8602
Trocenko, A. A. 7132
Troelstra, A. S. 9982
Troesch, B. A. 4121, 9281, 9282
Troesch, H. R. 9281
Trofimčuk, R. N. 1196
Trofimov, I. B. 12362
Trofimova, G. V. 8476, 8477
Troickaja, L. S. 4229
Troickiĭ, E. A. 11704
Troisi, Mario 715, 923, 3392
Troitskaya, L. S. *See* Troickaja, L. S.
Tromba, A. J. 6197, 8712
Trombetti, Guido 8011
Trotin, J. C. 4450
Trotman, D. J. A. 11381
Trottenberg, Ulrich 10743
Trotter, Peter G. 439
Trotter, William T., Jr. 2553, 5059-5062
Troué, Jacques 6126
Truax, Donald R. 6243
Trubatch, S. L. 12250
Trubin, V. A. 12186
Truchard, James J. 14830
Trudinger, Neil S. 13309
Truesdell, Clifford Ambrose *See* ★7181
Truffin, C. 2091
Truman, Aubrey 6796
Trumper, Frank J. D. *See* 2577
Trunk, Gerard V. 12324
Truong, L. 2060
Trusov, S. S. 6938
Trygar, Tobias A. 12177
Tryhuk, Václav 646
Tsagas, Grigorios 11235, 13785
Tsai, Wan Tswan 6654
Tsamasphyros, G. 11737
Tsao, Liang Chi 7388
Tsau, Chih Shun 8305
Tsay, Jia Yeong 6395
Tschumi, Pete *See* 7157
Tse, Edison 9820, 9821
Tseligorov, N. A. *See* Celigorov, N. A.
Tseng, Ching Nan 3298
Ts'éng, Chün Hung 851, 2592, 7381
Tserpes, Nicholas A. 517, 11437
Tsitsas, L. 930
Tsoi, A. C. 9746, 13255a-b
Tsokos, C. P. 1389, 6279, 6280, 6998, 14103, 14139. *See also* 14138
Tsuboi, S. 3017
Tsuchiya, Nobuo 11408
Tsuda, Takao 9042
Tsuji, M. ★2990
Tsujishita, Toru 1247, 8662
Tsuno, Yoshimichi 5598, 5599
Tsuruta, Kunio 14413
Tubaro, Luciano 7982
Tucker, Albert William *See* 12441-12443, ★14769
Tucker, C. T. 13692
Tucker, R. W. 2117, 9411
Tudor, Constantin 6295, 8897
Tudosie, Constantin 11893
Tugizov, D. M. 5477
Tukešev, O. 3334
Tulczyjew, Włodzimierz M. 8726, 8727
Tuljaganov, S. T. 7408, 7409
Tulley McAuley, Patricia 11315
Tullo, Alan W. 3407
Tully, Edward J. 11866
Tumolillo, Thomas A. 3857
Tumura, Yosiro 14244
Tuominen, P. 6282
Tupper, B. O. J. 9556
Turaev, K. 3082
Turakainen, Paavo 2368, 9898
Turán, Pál 2394, 10113. *See also* ★9960-★9962
Turaĺvili, T.V. 2415, 10003
Turbin, A. F. ★8913
Turcat, Claudine 9884
Turek, Richard J. 2916
Turett, Barry 11052
Turiel, Francisco Javier 11421, 13963
Turner, Edward C. 3724
Turner, John Wm. 7948
Turner, P. R. 9084
Turpin, Philippe 8204, 11028, 11046
Tursunov, G. T. 8778
Turtoi, Adriana 13809
Turzyński, Antoni 7770
Tusnády, G. 6413
Tutschke, Wolfgang 13270
Tuzik, A. I. 11006
Tweddle, I. 8212
Tweedie, Richard L. 14143
Tyagi, B. N. 3995
Tymchatyn, E. D. 6066, 11297
Tyrkalanov, K. D. *See* T″rkalanov, K. D.
Tyrrell, J. A. ★1066
Tyutin, I. V. *See* Tjutin, I. V.
Tzafestas, S. G. 12325, 14825
Tzafriri, Lior ★3344, 8224
Tzeng, Chun Hung *See* Ts'éng, Chün Hung
Tzimbalario, Jean 790, 3250, 5683, 10530, 10940, 10943

U

Ubhaya, Vasant A. 8211a-b
Učaĭkin, V. V. 4487

Uchibori, Tomio 310
Uchiyama, Saburō 5146
Učišvili, L. A. ★4256
Udalaja, N. I. 784, 3212
Udalov, A. S. 8493
Udalov, V. I. 12399
Udrište, Constantin 8502
Uebe, Götz ★2157, 4656
Uemura, Yasuhisa 8569
Ueno, Kenji 605, 12775
Ueno, Sueo 1862, 2130, 11001
Ugarov, V. A. 9573
Uggè, Albino *See* 9933
Uglanov, A. V. 497
Ugol'nikov, A. B. 9885
Ugrin-Šparac, Dimitrije 10135
Ugulava, D. K. 1544
Uhl, J. J., Jr. 3475, 11052
Uhlenbeck, K. 1288
Uhlenbrock, Dietrich A. 12014
Uhlig, D. 14887
Uhlmann, A. 11072
Ulewicz, Bartłomiej 6111
Ulickiĭ, M. B. 12277
Ulig, D. *See* Uhlig, D.
Ul'janov, P. L. 3393, 5820, 13453. *See also* 6
Ul'janov, V. V. 3813
Ul'janova, V. I. 14388
Ullman, Jeffrey D. ★1706, 9155, 9659, 11842, 14474
Ulmer, W. 4460
Ulmo, J. 14246
Ulrey, Michael L. 4823
Uluçay, C. 13062
Umanskiĭ, Ja. L. 8730
Umans'kiĭ, S. È. 4148
Umebayshi, Mitsutoshi 4610
Umemura, Hiroshi 7470
Umenzawa, H. 2043
Umezawa, M. 2020
Umezawa, Toshio 13063
Umgeher, Karl 535, 2947
Underwood, Robert G. 6945
Unger, F. 1050, 1051
Unger, J. 6662
Unger, V. E. 2169, 6943
Uninskiĭ, A. P. 3394
Unni, K. R. 8157, 8158
Uno, Saeko 6165
Unsworth, K. 3075
Unterberger, A. 5611
Unterberger, J. 5611
Uomini, R. 6164
Upadhyay, M. D. 3622
Upmeier, Harald 3037, 10690
Uppuluri, V. R. R. ★11721, 14289
Upton, G. J. G. *See* 11536, 11537
Urabe, Hironobu 13049
Urabe, M. 11793. *See also* 41, ★9911, 12461
Urakov, H. 139-141
Ural'ceva, N. N. *See* 6
Uraz, A. 4123, 2283
Urazbaev, B. M. *See* ★10187
Urban, P. 9590
Urbanik, K. 11450
Urbanowski, K. 14623
Ursell, F. 4307
Us, G. F. 3471
Ušakov, V. N. 2233a
Usbeck, Gerhard 7077
Ushakov, V. N. *See* Ušakov, V. N.
Ushijima, Teruo 8354
Usiskin, Zalman *See* 12422
Uškalov, V. F. 9801
Uskov, A. V. 148
Usmani, Riaz A. 9097
Usmanov, N. 13092
Usmanov, Z. D. 2987, 2988
Uspenskiĭ, A. B. 14580
Uspenskiĭ, S. V. 866
Ustinov, Ju. A. 11917
Usynin, V. I. 12400
Utepbergenov, M. 14389
Utiyama, Ryoyu 9392, 14648
Utkin, V. I. 3488
Utz, W. R. 10759
Uusipaikka, Esa 11485
Uyehara, Takao 6544
Uzdemir, A. P. 12192a-c, 14871

V

Vaaler, Jeffrey D. 10916
Vaccaro, G. 2395
Vacek, Jiří 716
Vachaspati 12068
Vachek, Josef *See* ★11869-★11871
Vachtsevanos, G. J. 4766
Vadnal, Alois *See* 7148, 7149
Vági, Stephen 10693
Vagner, V. V. *See* ★4888
Vagradov, G. M. 12051
Vahlaeva, L. F. 14574
Vahrenkamp, Richard 9067
Vaidya, P. C. 9591
Vaĭnberg, B. R. 3176
Vaĭnbrand G. I. 13299
Vaĭnikko, G. M. 4137, 6532
Vaĭnšteĭn, A. G. 6052, 13093
Vaisburd, I. F. 9700
Vaisman, Izu 3773, 6048
Vaĭtkus, P. S. 3821
Vakar, Anna *See* ★8065
Vakarčuk, B. S. 3608
Vakulenko, A. A. ★4221, 14530
Valanis, K. C. 14529
Valavani, Lena S. 12266
Valdivia Ureña, Manuel 11019
Valčev, K. G. 3101, 9221, 11823
Valent, Tullio 9272, 11928, 11929
Valentin, Richard A. 4332
Valentine, J. E. 5981
Valette, J. 349
Väliaho, Hannu 4634
Valiant, L. G. 2350, 7131
Valic'kii, Ju. M. 10821
Valiev, M. K. 413, 6580
Valla, G. 295, 10240
Vallander, S. V. *See* 4897, 4898
Valuşescu, Ilie 11476
Vamanu, Elena 8517
Vanagas, V. V. 6716, 9393, 10511, 14594
Van-An' *See* Wang-an
Van Binnebeek, J. J. 6726
Van Calck, J. *See* van Calck, J.
Vandaele, Walter 14215
Van Daĭk, G. *See* Van Dijk, G.
Van Dan' Či *See* Wang, Tan Chih
VanderBrug, Gordon J. 9192
Van der Kallen, Wilberd 5224
Van der Poorten, Alfred J. 5128, 5129
Vandewalle, Joos P. 2700, 5269
Van Diest, Viviane 5041
Van Dooren, René 1622, 4232
Van Dyke, Milton ★4315
Vangeldère, J. 3592
Vanhecke, Lieven 6012, 6043, 13816
Van Nypelseer, A. 14690
Van Ryzin, J. 1457
Van Sant, T. 3222
Vansnick, Jean-Claude 11233
Vanstone, S. A. 2496, 2497, 5008, 12554
Vantilborgh, H. 1697
Van Vleck, F. S. 1048, 6966, 13016
Varadarajan, K. 2730, 6141, 10316, 13931
Varadarajan, V. S. 7708, 12985
Varadhan, S. R. S. 1351, 13336
Varaiya, Pravin 2310
Varava, V. P. 14568
Varčenko, A. N. 10248, 12763, 12764
Vardalas, J. 2061
Vardulakis, A. I. 4754
Varea, V. 12891
Varela, Januario 932
Varga, József ★4673
Varga, R. S. 558, 804, 3060
Vari, Thomas 4186
Varian, Hal R. 14761
Varlamov, G. E. 8478
Varma, A. K. 3219, 10527
Varopoulos, Nicholas 3304
Varoutas, Panos P. 7100
Vartak, M. N. 135
Vasconcelos, W. V. 5223
Vasicek, Oldrich 8967
Vasilache, Sergiu 929, 3408
Vasil'ev, F. P. ★8401, ★8402
Vasil'ev, Ju. P. 7591, 7592
Vasil'ev, V. A. 4704, 5795, 5821
Vasil'ev, V. E. 12336
Vasil'ev, V. I. 8983, ★9189
Vasil'eva, A. B. 628
Vasilevic, A. P. *See* 35
Vasilevskiĭ, N. L. 3518, 11099
Vasilik, P. V. 12251
Vasishta, S. K. 3057, 10701
Vasiu, Angela 5955a-b
Vasjukevič, V. O. 12406
Vaškas, P. 8479
Vaskin, A. I. 9422
Vasov, O. K. 4564
Vasquez, A. T. 8648
Vassails, Gérard 50-53
Vasudeva, H. L. 8355
Vasudevan, R. 4559
Vatoux, M. ★11835
Vatutin, V. A. 8908, 14136
Vaughan, J. E. 13848
Vaughan, R. C. 2608, 5151, 12695
Vavilov, S. I. *See* ★9942
Vavilov, V. V. 10579
Vazja, V. G. *See* 22
de Vecchia, P. 14590
Večeslavov, V. V. 1566, 1567
Vedernikov, V. A. 5342
Vedernikov, V. I. 13751
Veinott, Arthur F., Jr. 4675
Veĭsfeĭler, B. Ju. 5364
Veĭssenberg, A. N. 13445
Veitch. Mary 1033
Vekerdi, L. *See* ★11156
Veksler, A. I. 886, 11025
Veksler, V. E. 6634
Velarde, M. G. 14686
Veldman, Arthur Eduard Paul ★4316
Veldman, W. 67
Velev, G. D. 14320
Veličko, N. V. 11282
Veličkov, T. 9889
Veliczky, J. *See* 2138
Veliev, È. I. 4352
Veliev, M. A. 672a-b
Veliev, S. G. 13635
Velitchkov, T. *See* Veličkov, T.
Velkovrh, Ciril *See* ★7148, ★7149
Velo, G. 14619
Veltman, M. 1922
Vélu, Jacques 12653
van de Ven, Alphons Adrianus Francisca ★6617
Venables, W. 3971
Veneroni, M. 2007
Venini, Carlo 2082
Venkatachalam, C. V. 10070
Venkataraman, Rangachari 7696
Venkatarayudu, T. 6719
Venkatesan, P. S. 440
Ventcel', T. D. *See* 1853
Venter, J. H. 11624
Venturini Zilli, Marisa 70, 6585
Venugopalacharyulu, N. 11575
Vera, G. 10926, 11018
Vera Botí, G. 5742
Veran, M. *See* 4159
Veraverbeke, N. 11519
Verbeure, A. 1963a-b, 1969, 4470, 6816
Verbickiĭ, B. V. 10599
Verbickiĭ, I. E. 5864
Verchery, Georges 1816
Vercheval, J. 4284
Verde Star, Luis 1063
Verdier, Jean-Louis 7475. *See also* 20, ★12778
Verdillon, André 9884
Veresov, V. G. 6985
Veress, G. E. *See* 2138
Veretennikov, V. G. 664
Vergne, M. 10504
Vergne, Michèle 12986
Verhozina, M. I. 4959
Verhulst, Ferdinand *See* 7157
Verlan', A. F. ★6533
Verma, R. U. 5753, 8182
Vermani, L. R. 7657
Vermaseren, J. A. M. 14715
Vermeychuk, J. Gregory 4763
Verner, A. L. 11254
Verra, Alessandro 2656
Verschoren, A. 5285, 10380
Veršik, A. M. 514
Verstraelen, Leopold 1112, 13791
Vértesi, P. 812, 3223, 8085, 10931, 10934
Vesman, È. 1953
Vessereau, A. 8970
Vessereau, L. A. 9952
Vetta, Atam 4713
Vettori, Carla 9216
Vey, Jacques 8765
Vial, Jean-Philippe 9689
Viano, G. A. 4354
Viaud, Dominique 6675
Vidal, A. 6857
Vidav, Ivan 10482. *See also* 7148, 7149
Videnskiĭ, V. S. 813, 13419
Vidossich, Giovanni 647, 673
Vidyasagar, M. 9701
Vidyasankar, K. 5046
Viel', G. *See* Weyl, H.
Viennot, Gérard 7667. *See also* ★12421
Vigfusson, J. O. 14694, 14695
Vigier, J. P. 1906
Vigman, B. A. 8928
Vigneras, Marie-France 280, 281, 12717
Vignes, J. 1581, ★11722
Vignoli, Alfonso 5918
Vigué, Jean-Pierre 7873, ★7874
Vilciņš, T. 7174
Vilfan, Boštjan 4852
Vilímovský, Jiří 1173
Vil'ke, V. G. 14487
Vilkova, L. P. 1623, 1685
Villa, Mario *See* 8457
Villamayor, O. E. 12768
Villani, M. 4471
Villarroel, Danilo 12149
Ville, Françoise 4979
Villegas, C. 6423, 6424, 14172. *See also* 3944
Villeneuve, Alain 8809
Vinař, Jan 9066
Vinardi, G. 6463
Vinberg, È. B. 10492
Vinberg, Ernest B. 7489
Vincensini, Paul 3601
Vincente, R. O. *See* 7157
Vincenzini, Paul *See* 8457
Vinner, Shlomo 4891
Vinogradov, A. G. 9335
Vinogradov, A. I. 7386
Vinogradov, I. M. *See* ★6
Vinogradov, O. P. 9025, 14293
Vinogradov, S. A. 10606
Vinokurov, V. A. 11086
Vinter, R. B. 12285
Vinti, Calogero 7758
Viro, O. Ja. 8654
Višenskiĭ, A. A. 1979
Visetti, Y. M. 8680
Vishenskii, A. A. *See* Višenskiĭ, A. A.
Vishnevskii, V. M. *See* Višnevskiĭ, V. M.
Višik, M. I. 3166, 3194. *See also* 8279
Višik, M. M. 243
Visini, G. 10369
Višnevskiĭ, V. 7513
Višnevskiĭ, V. M. 4611
Vitale, R. A. 2921
Vitányi, Paul M. B. 9186, 11867
Vitásek, E. 9091
Vitek, Yehoshua 12632
Viterbi, Andrew J. 9853
Vitiello, G. 12007
Vivaldi, Maria Agostina 8376, 10902
Vivrot, T. M. 13927
Vizitiu, V. N. 12733
V'jugin, V. V. 10000
Vlach, Milan ★14816
Vladimirov, V. S. *See* 6
Vladimirskiĭ, Ju. N. 11090
Vlasov, A. A. *See* 12444
Vlasovec, N. N. 5676
van Vliet, K. M. 4358
Vodă, Viorel Gh. 1522, 3927, 6360, 6361, 11708

Vodák, F. 6705
Vodop'janov, S. K. 2961
Voelkel, Lutz 9156
Vogel, Hans-Jürgen 12595, 12596
Vogel, Pierre ★8676
Vogel, Wolfgang 199, 5259, 12757
Vogt, R. M. ★8623a, 11325
Vogt, William G. 6907, 12177
Võhandu, L. 11663
Vohmann, Horst Dieter ★593
Vohra, R. K. 13779
Voiculescu, Dan 3427, 3431, 5852, 5876
Voinea, Radu 12457
Voinov, O. V. 9287
Voĭtišek, L. V. *See* Vojtíšek, L. V.
Voĭtovič, N. N. 11986
Vojtíšek, L. V. 9060
Volenec, Vladimir 11171
Volevič, L. R. *See* 7161, 10873
Volin, Ju. M. 11141
Volkmann, Bodo 10180
Volkmann, Peter 3124, 8313
Volkovinskiĭ, M. I. 11572
Vollendorf, F. 4546, 4547, 6848
Vol'mir, A. S. ★4259
Volokitin, S. S. 4648
Vološin, S. A. 4126
Vološinov, A. V. 11977, 11978
Volosov, V. M. 628
Vol'pert, Ju. V. 3754
Vol'pert, V. S. 11903
Volynec, I. A. 547
Vondráček, Prokop 142
Voorhees, Burton H. 9592
Vopěnka, Petr 2463, 10016
Vorel, Zdenek 681
Vorlíčková, Dana 6373
Vorob'ev, V. N. 2997
Vorob'eva, A. A. ★6444
Vorob'eva, L. I. 13807
Vorobĭov, M. M. ★10913
Voronina, N. V. 3126
Voronoĭ, O. M. 8198
Voros, A. 8759
Vorovič, I. I. 6628, 11923
Vorovič, L. S. 11960
Vorovich, I. I. *See* Vorovič, I. I.
Vosiljus, R. V. *See* Vosylius, R.
Voskresenskiĭ, V. E. 10287, 12922
Voss, H. 1598
Voss, Robert G. 1669
Vostrov, V. K. 695
Vostrý, Zdeněk 11756, 12308, 12326
Vosylius, R. 1278
Vovsi, S. M. 12899
Voytovich, N. N. *See* Voĭtovič, N. N.
Voznjuk, L. F. 4779, ★14579
Vrabec, J. 11339. *See also* 7148
Vraciu, G. 3502
Vrănceanu, G. 5960, 5988, 12919. *See also* 8457
Vrănceanu, G. G. 13730
Vretare, Lars 3302
de Vries, J. ★3671
de Vries, R. W. 9349
de Vries, Trienco 11464
Vuillemin, J. 4165, 4178, 6597, 9143
Vujanović, B. 1759
Vu The Hyu 14272
Vuvunikjan, Ju. M. 879
Vuza, Dan 8070
Vyhandu, L. K. *See* Võhandu, L.
Vyvrot, T. M. *See* Vivrot, T. M.

W

Waadeland, H. 10590
de Waal, D. J. 1485
van der Waall, Robert W. 2792, 7614, 12889
Wachnicki, Eugeniusz 8123, 10815
Wachspress, Eugene L. ★14403
Wacker, H. J. 1686
Wada, Hideo 2615
Wada, Seishi 322
Wadati, Miki 4452, 4453, 9415, 14611
Wade, William R. 8139
Wadhwa, Bhushan L. 3466
Wadler, Philip L. 14473
Wadsworth, M. 1682
van der Waerden, B. L. 4896
Wagener, Diane K. 4714
Wagner, Ascher 7602
Wagner, Carl G. 5197
Wagner, Daniel H. 8417
Wagner, E. F. *See* ★6055
Wagner, E. G. 10373, 14432
Wagner, Eberhard 13477
Wagner, Helga 14790
Wagner, Klaus 9163
Wagoner, J. B. 5320
Wahba, G. 11791
Wahl, Jonathan M. 7460, 10261
von Wahl, Wolf 3156, 5634, 10857, 10858
Wahlbin, L. B. 14402
Wahlquist, Hugo D. 3191
Waikar, V. B. ★1482
Wainer, S. S. 7231
Wainger, S. 3290, 10994
Wainwright, J. 9593
Wajler, S. 531
Wakabayashi, Seiichiro 3174
Wake, G. C. 709
Waksman, Z. 8449
Walasek, K. 2035
von Waldenfels, Wilhelm 9495
Waldinger, Hermann V. 404
Waldschmidt, Michel 5130, 12678, 12679
Waldvogel, J. *See* 7157
Waligóra, Gerald 86
Waliszewski, W. 1275
Walkden, F. *See* ★4327
Walker, A. G. ★4548
Walker, Adrian 9171
Walker, Billy 6526
Walker, C. L. 2756
Walker, Gail R. 990
Walker, Homer F. 10837
Walker, J. A. 6959, 8395, 9786
Walker, M. 9555, 14739
Walker, Michael 8442, 13919
Walker, Philip W. 5576
Walker, R. C. 3656
Walkup, D. W. 399
Wall, C. T. C. 6166c, 11342, 11357, 12860, 12861, 13952
Wallace, C. S. 14306
Wallach, Nolan R. 5396, 7704, 10505
Wallenstein, Sylvan R. 6224
Waller, D. A. 2550, 12401
Wallet, Guy 11353
Walley, D. 8873
Wallin, Hans 10521
Wallis, Jennifer Seberry 12543, 12547-12553, 14585
Wallis, Walter D. *See* ★10024
Wallisch, Walter 14351
Walls, D. F. 2062
Wallsten, Thomas S. 9737
Walpole, L. J. 8003, 14531
Walsh, Bertram 6213, 7829
Walsh, John 3847, 8857
Walsh, John J. 13838
Walter, H. K.-G. 6581, 12407
Walter, Martin E. 8164, 12966
Walter, Rolf 6029
Walter, S. D. 11712
Walter, Wolfgang 1198, 1855, 3125, 5658, 13017
Walters, Peter 515, 2922, 2923
Walther, H. 12570
Walton, J. R. 822
Wan, Chê Hsien ★365
Wan, H. Y., Jr. 12236
Wan, Zhe Xian *See* Wan, Chê Hsien
Wand, Mitchell 10376
Wanders, G. 4408
Wang, Albert T. 14127
Wang, Arne 9144
Wang, C.-C. *See* Wang, Chao Chen
Wang, Cecilia 576, 13784
Wang, Chao Chen 4273, 9275
Wang, Chung Lie 1573
Wang, Edward T. H. 12810
Wang, Hao 14464
Wang, Hawi Chiuan 3298
Wang, Hsien Chung 2879
Wang, Jesse Y. 6469
Wang, Johnson C. K. 12827
Wang, P. K. C. 2005, 11152
Wang, P. S. C. 14641, 14642
Wang, Patrick S. 9193
Wang, Peter C. C. 3884
Wang, S. H. 14819
Wang, Tan Chih 10771
Wang-an 8956
Wankhede, P. C. 8180
Wanner, Gerhard 4113
Warburton, A. E. A. 6797
Ward, Harold N. 4819
Ward, Joseph D. 986, 5882, 10938, 10939
Ward, L. E., Jr. 1184
Ward, Robert C. 10300
Warfield, R. B., Jr. 357, 2635, 2756, 10444
Warfield, Virginia M. 4801
Warga, J. 5937, 11138
Warmuth, W. 11705
Warner, C. Robert 3420
Warner, Seth 5204
Warner, Stanley L. 14182
Warren, F. W. 1832
Warren, P. 7000
Warren, Richard H. 2284
Warren, William T. 9844
Wasên, R. 5174
Washington, Lawrence C. 12710
Wason, Judith C. 5507
Wasow, Wolfgang 7969
Wassel, Gustav N. 7078
Wassermann, Simon 13582
Watanabe, Kinji 10839
Watanabe, Kiyoshi 5500, 7855
Watanabe, Masafumi 14467, 14468
Watanabe, Osamu 2953
Watanabe, Sin-ich 7434
Watanabe, Takesi 14123
Watanabe, Tetsuro 416
Watanabe, Yoshiyuki 6049
Waterhouse, William C. 3648
Waterman, Daniel 5408
Watkins, Mark E. 10068
Watkins, William 12813
Watson, B. 781
Watson, Bill 11256, 13764
Watson, G. L. 2590
Watson, Layne T. 6946
Watson, N. A. 13102
Watson, R. K. 6240
Watters, J. 10314
Watts, H. A. 1621, 1636
Watzlawek, Wolfgang 3157
Wawrzynek, Jerzy 14252
Wayland, Keith 5400
Wayment, S. G. 6103, 13692
Waymire, Edward C. 8909
Weakley, R. H. 4774
Weare, John H. 1994
Weaver, George 2416, 12516
Webb, Cary 427
Webb, G. F. 3193, 13250
Webb, G. R. 9301
Webb, J. H. 13616
Webb, J. R. L. 5913
Webb, R. P. 7075
Webb, William A. 7396
Webber, Robert P. 5275
Weber, Hans 13028
Weber, Hans Hermann ★9655. *See also* ★14780
Weber, R. 2006
Webster, Murray, Jr. 3781
Wechler, Wolfgang 1733
Weck, Norbert 11132
Wedig, W. 4796
Weese, Martin 12478
Węglarz, Jan 6936
Węglorz, B. 94, 2454
Wegmann, Rudolf 8816
Wehrfritz, B. A. F. 418, 2780, 10414, 10418
Wei, Kuang Chung 4743
Wei, Y. J. 14343
Weidenfeld, Gérard 7581
Weidenfeld, Michèle 7582
Weidenmüller, H. A. 9501
Weidlich, W. 2064
Weidner, H. G. 10536
Weihrauch, K. 2434
Weil, André 10156
Weil, Wolfgang 8450
Weinacht, R. J. 2995
Weinberg, Erick J. 14592
Weinberg, L. 2500, 9880
Weinberger, H. F. 4309
Weiner, Howard J. 1410, 6309, 11541
Weiner, Joel L. 13789
Weiner, P. 6558
Weinert, H. J. 7678
Weinert, Howard L. 8443
Weingarten, Don 14736
Weingartner, Paul *See* ★7187
Weinstein, Alan 6050, 11382
Weinstein, J. 6147
Weinstein, J. M. 4990
Weinstock, J. 14561
Weintraub, A. 9639
Weintraub, E. Roy 9623
Weintraub, Steven H. 1268
Weisfeiler, B. *See* Veĭsfeĭler, B. Ju.
Weispfenning, Volker 2451
Weiss, Benjamin 512, 7755, 7756
Weiss, Edwin ★5172
Weiss, Ernst-August, Jr. 1084, 6274
Weiss, George H. 14202
Weiss, Guido 843
Weiss, Leonard 10769
Weiss, N. A. 13384
Weiss, Norman J. 8156, 8170
Weiss, Richard M. 178
Weissinger, J. 4282
Weissman, Ishay 5402, 11434
Wejntrob, Leon 13216
Welch, James W. 14471
Welch, L. C. 4404
Welfe, Władysław 12182
Wellford, L. C., Jr. 14539
Welling, Priscilla 6952
Wells, Benjamin B., Jr. 13463
Wells, G. S. 11383
Wells, John C. 6206
Wells, R. 11354
Wellstein, H. 538
Wenisch, Fritz *See* ★7187
Wenston, Paul R. 10811
Wente, Henry C. 8462
Wermer, J. 7856
Werner, Günter 7226
Werner, H. *See* Werner, Helmut
Werner, H. *See* ★106
Werner, Helmut 4067
Werner, J. 13698
Werner, Michael ★14780
Werner, P. 10875
Weron, A. 14072, 13598
de Werra, D. 2510, 12563
Wertz, Wolfgang 14225
Wesołowska, Maria Zofia 14281
Wesoły, Zygmunt 12182
Wessel, W. 2551
Wessels, S. F. G. 2746
West, Robert W. 13978
West, T. T. 1015. *See also* ★13461
Westcott, M. *See* 1529
von Westenholz, C. 9491
Westerberg, Arthur W. 4106
Westerberg, Roy A. 9006
Westphal, L. C. 4688
de Wet, T. 11624
Wetherill, G. B. 3922
Wets, R. J.-B. 4652. *See also* ★14026
Wetzel, Marion 10999
Weyl H. 43, 2408. *See also* 35
Weyland, Nicholas 10645
Wheeden, Richard L. 5720, 5721
Wheeler, John Archibald ★6869
Wheeler, Lewis 5644, 9258
Wheeler, Mary F. 1670
Wheeler, Robert F. 904, 13547

Wheeler, Robert L. 13511
Whicker, D. 4341
Whinston, Andrew B. ★4632
Whipple, Christopher G. 6984
Whiston, George S. 9489, 11347
White, A. B., Jr. 1627
White, A. J. 5433
White, A. T. 123
White, Albert G., Jr. 11116, 13544
White, Arthur T. 5051, 10060
White, Brian E. 5162
White, Chelsea C. 4676, 12373
White, Dennis E. 2486
White, Warren 6205
Whitfield, J. H. M. 3596
Whitford, A. K. 12624
Whitford, Anthony K. 12625
Whitham, G. B. 9331
Whitley, Robert 3420, 10935, 13018
Whitman, Alan M. 6698
Whitney, Cynthia 4563
Whitt, Ward 14045
Wiarda, G. G. 9594
Wicke, H. H. 13872
Wickens, Charles Henry *See* 9941
Wickens, Thomas D. 12256
Wickert, Johannes ★9953
Wickless, W. J. 428
Wicks, Thomas M. 1671
Wickstead, A. W. 8228, 13039, 13588
Widiger, Alfred 12822
Widlund, O. 4072, 9107
Widrow, Bernard 9808
Wiegand, Sylvia 5208
Wiegandt, Richard 2715, 10317
Wiegel, F. W. 12100
Wiegold, James 409, 2806, 5357
Wiehagen, Rolf 7228
Wiens, Douglas 2615
Więsław, W. 5205
Wiggins, Alvin D. *See* 9099
Wiggins, Kenneth L. 1612
Wightman, A. S. 6759
Wigner, David 2875, 12975
Wigner, E. P. 9394, 14587. *See also* ★4885
Wilansky, A. 882
Wilbrink, H. A. 2511
Wilczyński, Władysław 7721
Wild, Claude 3500
Wildberger, Norman 7372
Wilde, R. R. 13230
Wildenauer, P. 3531
Wilhelm, H. E. 6668
Wilhelm, J. 4574
Wilhelm, M. 2237
Wilken, Donald 13066
Wilkerson, Clarence 6130
Wilkie A. D. 9026a-b
Wilkie, A. J. 10111
Wilkins, C. W. 4729
Wilkins, J. Ernest, Jr. 3564
Wilkinson, J. H. 1570, 14337. *See also* ★11722
Willie, Rudolf 187, 2559, 7340
Willems, J. L. 7081, 9813, 12330
Willems, Jan C. 4773, 7029, 8141, 9813
Williams, A. C. 8929
Williams, B. B. 11115
Williams, C. M. 3578
Williams, D. L. 8255
Williams, David *See* 11536, 11537
Williams, David N. 12014
Williams, Delores A. 5118
Williams, E. J. 3947
Williams, George W. 3961
Williams, H. C. 220, 2574, 2575, 2623, 5180
Williams, H. P. 9664
Williams, J. S. 7615
Williams, Jack 1563
Williams, Kenneth S. 218, 2568, 2569, 5095, 5134, 5182, 10115, 12611
Williams, M. L. 9954
Williams, M. M. R. 2047
Williams, N. H. ★2411
Williams, P. M. 4916
Williams, R. F. 1304, 2251, 3760, 3762
Williams, S. A. 9412
Williams, Scott W. 6087
Williams, Stephen A. 2996
Williams, Trevor *See* 11536, 11537
Williams, Vernon 962
Williams, W. L. G. *See* 2392
Williamson, L. J. 13687
Williamson, S. G. 2486
Willig, Paul Mitchell ★3428
Willmore, T. J. 1138
Willmott, Richard C. 12527
Willner, B. E. 13201, 13239
Willoughby, Ralph A. 6475
Wills, J. M. 1089
Wilmański, K. 6706
Wilson, D. J. 9783
Wilson, Edward N. 13951
Wilson, George 6139
Wilson, Robert Lee 366, 7654
Wilson, S. J. 2131, 2132
Wimmer, Harald K. 333, 10298
Win, Sein 2529
Windelberg, Dirk ★13701
Windey, P. 2091
Windisch, Günther 11824, 14384
Wine, J. D. 6068
Wineman, Alan S. 11944
Winet, Howard 6984
Winkelbauer, Karel 9940
Winkelnkemper, H. E. 1257
Winkler, Gottfried 6259
Winkler, Wolfgang 3858
Winnink, Marinus T. 2086
Winograd, Shmuel 4070, 11734
Winogradzki, J. 13957
van Winter, Clasine 5897
Winternitz, P. 1924, 2891, 4399
Wintgen, P. ★1274
Wirsing, Eduard 256
Wirth, Niklaus 14433
Wirths, Karl-Joachim 5604
Wischnewsky, Manfred B. 2668
Wise, David S. 11868
Wise, G. L. 14105
Wisner, Robert J. 10436
Wiśniewski, K. 1718
Withalm, C. 7799
Witsch, Karl J. 3154
Witsenhausen, H. S. 340, 5021, 12268, 12337, 14875
de Witte, Paul 10048
Witten, L. 2076
Wittenburg, J. 4230
Wiweger, Antoni 10374
Wizimirski, Z. 2994
Włodarczyk, E. 4310
Włodarska-Dymitruk, Anna 688
Wnek, Walter J. 1631. *See also* 1632
Wnuk, Barbara 10112
Wobst, Reinhard 5786, 13002
Wode, Dieter *See* ★4878
Wódkiewicz, K. 4549, 4550
Woeppel, James J. 12900
Wohlgemuth, Andrew 9714
Wohlrabe, Klaus 10186
Wójcicki, Ryszard 54
Wojciechowska, Maria 548
Wojciechowski, S. 6609
Wojciechowski, Stefan 14649
Wójcik, J. 5193
Wojtaszczyk, P. 13583, 13539
Wolf, E. 11989
Wolf, Gary A. 7112
Wolf, Jack K. 9852
Wolf, Joseph A. 10506, 10507
Wolf, Karl *See* ★7187
Wolf, Kurt Bernardo 6720
Wolf, Werner 14058, 14059
Wolfe, Douglas A. 6374, 14185
Wolfe, John 5815
Wolfe, Peter 2992
Wolfe, Philip *See* ★14771
Wolfe, Warren 12555
Wolfenstein, Samuel 5077
von Wolfersdorf, Lothar 9774
Wolff, Gerhard 7176
Wolff, Harvey 379
Wolff, Karl Erich 5016
Wolff, Ronald W. 8930
Wolfowitz, J. 6364
Wolk, Idel 2081
Wolke, Dieter 262
Wollenberg, L. S. 9395
Wołodźko, Leon 8766
Wolovich, W. A. 2265, 7049, 12270
Wolpert, Scott 10678
Wolsey, Laurence A. 9665
Womack, Baxter F. 342, 11151, 14830
Womble, M. Edward 14373
Wong, B. 13151
Wong, C. K. 1144
Wong, Chi Song 6120
Wong, Edward T. 10343
Wong, Eugene ★3778
Wong, James S. W. 10728, 13266
Wong, R. 3315, 7968
Wong, R. Y. T. 3707, 3708a-c, 8641
Wong, S. K. 4551, 12892
Wong, W. J. 12886
Wong, Yau Chuen 8206
Wonham, W. M. 2262, 7063, 14856. *See also* 9915
Wood, A. D. 14502
Wood, D. H. 5600
Wood, Derick 4205, 4206, 9177
Wood, G. V. 3296
Wood, J. C. 8720
Wood, Van E. 4041, 4054. *See also* 4050
Woodroofe, Michael 3998
Woodruff, Edythe P. 6145
Woodruff, Peter W. 7207
Woods, L. C. 11883
Woods, R. Grant 13855
Woods, Sheila M. 2717
Woodward, Gordon S. 10981
Wooldridge, Kent 2606
Woolley, M. L. 12150
Workman, D. A. 1734
Woronowicz, S. 2994
Woronowicz, S. L. 8316, 13584
Worrell, J. M., Jr. 13872
Wörz-Busekros, Angelika 13326
Wouk, Arthur 11792
Woźniak, C. 4274, 9228, 11918-11920, 14532
Wozniakowski, H. 6498, 9077, 11757
Woźnicki, W. 1939
Wreszinski, Walter F. 4476
Wright, A. Larry 6248
Wright, C. K. 10282, 12794
Wright, C. R. B. 2820
Wright, D. 12747
Wright, D. L. 2634
Wright, David G. 1229, 8639
Wright, Donald 5665
Wright, E. M. 12571
Wright, Gordon P. ★4632
Wright, J. B. 10373
Wright, L. E. 621, 14604
Wright, Marcus W. 7863
Wright, Michael J. 7440
Wrightson, Charles W. 8930
Wrobel, Volker 3457
Wroński, Andrzej 4927a-b, 12482
Wu, C. L. 6491
Wu, Felix F. 7136
Wu, Hung Hsi 10672
Wu, Min Yen 2277, 4774
Wu, Pei Yuan 983, 13627
Wu, S. H. 9791
Wu, T. S. 1188
Wu, Tai Tsun 14650
Wulbert, Daniel 823, 5708
Wulfman, C. E. 479
Wunderlich, Walter 3577, 11157. *See also* 8457
Wunsch, Gerhard ★11980-★11982
Wünsch, Volkmar 12155, 14740
Würgler, Urs 6173
Wußing, H. *See* ★9938
Wybourne, B. G. 479, 9396
Wybraniec-Skardowska, Urszula 7198
Wyler, Oswald 11259
Wyman, B. 7017
Wynn, H. P. 1500
Wynn, P. 3210

Y

Yaaseen, Adel A. K. 7724
Yabe, Takeshi 7367
Yackel, James W. 14221
Yadav, N. S. 7681
Yadav, P. C. 3614, 3615, 8508
Yadav, Sarjoo Prasad 13370
Yadava, S. R. 10990
Yagawa, G. 14541
Yagi, Katsumi 13771
Yagi, Kuniko 8668
Yagita, Nobuaki 3723
Yağiz, Ümer 4649
Yahata, Hideo 4468
Yahagi, Takashi 9784, 9785
Yahav, Joseph A. 12168
Yajima, Nobuo 14616
Yajima, Y. 13850
Yajima, Yukinobu 8570
Yakowitz, S. J. 4653
Yaku, Takeo 4871
Yalavigi, C. C. 5092, 10132
Yamada, Akira 13142
Yamada, Keigo 11594
Yamada, Osamu 6582
Yamada, T. 1386
Yamada, Toshihiko 5185
Yamada, Yoshio 13654
Yamagata, Shuji 12719
Yamaguchi, Itaru 12628
Yamaguchi, Masaru 3098
Yamaguchi, Seiichi 1127, 3623
Yamaguchi, Toshikazu 4630
Yamaguti, Kiyosi 5307
Yamahara, Hideo 8039
Yamaki, Hiroyoshi 10396
Yamaki, Jusuke 4894a-d, 4895a-b
Yamamoto, Kazuhiro 5612
Yamamoto, Koichi 7425
Yamamoto, Kunio 9462
Yamamoto, Masaaki 6960
Yamamoto, Taku 11701
Yamamoto, Y. 8408
Yamasaki, Masao 6888
Yamasaki, Shuichiro 9537
Yamashima, Shigeho 5262
Yamashita, Kazumi 4812
Yamashita, Shin-ichiro 4081
Yamashita, Shinji 2948
Yamawaki, Koichi 1966
Yamasaki, Masatoshi 12015, 12060, 12061
Yanagawa, Takashi 3956, 11604
Yang, C. C. 2038, 7779, 13049
Yang, Chao Chih 7137
Yang, Chen Ning 14650
Yang, C. T. 13948
Yang, J. S. 6107
Yang, Kung Wei 11095
Yang, Paul C. 7837
Yang, Shih Chien 7138
Yang, Wei Chê 8869

Yano, Kentaro 1128, 6046, 11245, 13773, ★13799, 13817, 13818
Yanowitch, M. 9601
Yao, Andrew C. 5102, 10028, 11852
Yao, Foong Frances 11852
Yao, Jing Shing 11627
Yao, Te Hai 4446, 6784
Yap, Chee K. 6559
Yap, H. P. 10087
Yap, Leonard Y. H. 13464
Yapley, B. D. *See* 7157
Yarmish, Joshua 14391
Yarushek, V. Ye. *See* Jarušek, V. E.
Yasnogorodskiy, R. M. *See* Jasnogorodskiĭ, R. M.
Yasugi, Mariko 7214, 12492
Yasui, Tsutomu 13939
Yasui, Yoshikazu 1180, 11291
Yasuo, Minato 1201
Yates, C. E. M. 12507
Yates, Robert 14343
Yates, Samuel 10123
Yau, Shing Tung 5502, 11243, 11247
Yau, Stephen S. 7138
Yavin, Yaakov 9810
Yavne, Moshe 2566
Yeager, D. P. 457, 2864
Yeh, Cheh Chih 10860
Yeh, J. 3848
Yeh, R. Z. 7731
Yellin, Joel 9377
Yellin, S. 2031
Yen, C. L. 3684
Yen, David H. Y. 14496
Yengibarian, N. B. 4562
Yeo, B. P. 9085
Yermachenko, A. I. *See* Ermačenko, O. I.
Yew, C. H. 1671
Yildiz, M. 14511
Yin, Y. K. 1860
Ylinen, Kari 13472
Ylvisaker, D. 1360
Yoder, Lane 6301
Yokoyama, Etuo 3136
Yonaha, Masanobu 2796
Yoneya, Tamiaki 12151
Yong, P. L. 14106
Yood, Bertram ★3434
Yoon, Byung Ho 5952
Yor, Marc 6265, 6270, 6278
York, J. 4553
Yorke, J. 4087
Yorke, James A. 670, 4717
Yormark, Jonathan S. 2194
Yoshida, Hidenobu 553, 7785
Yoshida, Kaname 9673, 14788
Yoshida, Masaaki 13962
Yoshida, Norio 7955, 13275, 13278
Yoshida, Toshio 3700, 11349
Yoshihara, Ken-ichi 6221
Yoshikawa, Hirosaku 13056
Yoshimura, Izumi 157, 2537, 2538
Yoshimura, Tetz 9464, 12035
Yoshinaga, Kyôichi 5902, 13407
Yoshino, Takashi 3467
Yoshizawa, Taro 5538
Yosimura, Zen-ichi 3686
Young, L. C. 3849, 8863
Young, N. J. B. 14533
Young, R. D. 4650
Young, Robert 7373
Young, Robert M. 13454
Young, Tzay Y. 9006
Younger, D. H. 5046
Youngren, G. K. 6688
Yourgrau, W. 6795
Youse, Bevan K. ★10515
Youssef, Hussein M. 8973
Yu, C. T. 4215
Yu, N. J. 11979
Yu, P. L. 9656, 14743
Yu, Ying King 7688
Yuan, John 10473
Yudin, V. M. *See* Judin, V. M.
Yuen, Christophe 3619, 8512
Yuen, Chung Kwong 7101, 12348, 12379, 13450, 14318
Yunck, Thomas P. 6593
Yurkevich, O. M. *See* Jurkevič, O. M.
Yutani, Hiroshi 10102
Yvon, J. P. 14833

Z

Zabello, L. E. 8409
Zaborova, T. N. 5524
Zachary, W. W. 1996
Zachorowski, Stanisław 65
Zacks, Shelemyahu ★8934a-b
Zadereĭ, P. V. 7805
Zaderenko, I. D. 2330
Zadiraka, V. K. ★2259
Zafran, Misha 5747, 8159
Zafrullah, Muhammad 2630
Zaharīn, O. M. 11554
Zahar-Itkin, M. H. 3168, 11990, 13240
Zaharjan, V. S. 2972
Zaharjuta, V. P. 7801, 13128
Zaharopol, Radu 11493
Zaharov, A. V. 1370
Zaharov, Ju. E. 8983
Zaharov, V. E. 14617
Zaharov, V. K. 888, 10100, 10323
Zaheer, Neyamat 7916
Zaheeruddin 3897
Zahler, Raphael 11330
Zahr, Khalil M. 4768
Zaĭčenko, Ju. P. ★9189
Zaĭcev, D. I. 405
Zaĭcev, G. A. ★9397
Zaĭcev, V. M. 12362
Zaĭdenberg, M. G. 3741, 13979
Zaidi, A. M. 10315
Zaidi, N. H. 13483
Zaĭkov, R. P. 12017a-b, 12052, 14643a-b
Zaitov, F. A. 5636
Zajta, A. J. 777
Zajtz, A. *See* 8059
Zak, F. L. 7461, 12770
Zakaljukin, V. M. 1294
Zakhar-Itkin, M. Kh. *See* Zahar-Itkin, M. H.
Zakharov, Yu. Ye. *See* Zaharov, Ju. E.
Żakowski, W. 14446
Zakrajšek, E. *See* 7149
Zaks, Š. *See* Zacks, Shelemyahu
Zakusilo, O. K. 3814-3816
Zalcman, Lawrence 940
Zalcstein, Yechezkel 10457
Zalesskiĭ, A. E. 421, 2723, 10435, 12893
Zalik, R. A. 7718, 8099
Žamalov, Z. Ž. 11743
Zambahidze, L. G. 6104
Zame, William R. 3412, 13136
Zames, G. 7039
Zamjatin, A. P. 12513
Zamyslov, V. E. 10957
Zander, G. 1792
Zanelli, Vanna 11061
Zang, I. 2213
Zappa, Guido 7624
Zappa, Paolo 10687
Zara, François 2517
Zarach, A. *See* ★2412
Zaremba, S. K. 11744
Zarhin, Ju. G. 10278
Žariĭ, Ju. I. ★9231
Zariṇa, S. 7174
Zaring, Wilson M. ★4977
Žarinov, V. V. *See* ★924
Zariski, Oscar ★2662
Žarov, V. A. 12458
Zarrop, Martin B. 9758
Zarrow, Robert 2831
Zarubin, A. G. 13191
Zárubová, N. 14506
Zaruckaja, V. V. 2956
Zaslavskiĭ, A. E. 6315
Zaslavskiĭ, G. M. 650
Zassenhaus, Hans 277
Žautykov, O. A. *See* ★7182
Žavoronkov, V. D. 8080
Zavozin, G. G. 536
Zawadzki, Adam *See* 2390
Zbornik, J. *See* ★3061, ★3062
Ždanov, G. M. *See* 42
Ždanov, S. I. 1008
Ždanov, V. I. 4336, 9595
Zderkiewicz, Józef 5454
Zdor, V. V. 12279
Zdorenko, L. D. ★2259
Zdrzałka, Stanisław 6979, 14577
Zdun, Marek Cezary 3205
Zech, Karl-Adolf 14447
Żeckendorf, E. 225
Zeeman, E. C. 6909
Zeheb, Ezra 10577
Zehnder, E. 14001
Zeiger, Paul 6548
Zeilberger, Doron 13101
Zel′dovič, Ja. B. ★14475. *See also* ★9288
Zelenjak, T. I. 3167
Zelenko, L. B. 10740
Zeleny, M. 9656
Želeva, S. D. 10098
Zelevinskiĭ, A. V. 12989, 12988
Želihovskiĭ, A. A. 1603
Zelinka, Bohdan 145, 156, 5056, 7325
Zelinsky, D. *See* ★12736
Zeller, K. 3224
Zellner, Arnold 8989, 14215
Zel′manov, A. L. 4552a-b
Zelmanowitz, J. M. 7533, 10313
Zelmer, G. 13377
Želobenko, D. P. 12987
Zemanian, A. H. 2357, 4853, 7117, ★10991
Zemell, S. H. 1800
Zemljakov, S. D. 12288
Zemljanoĭ, N. S. 11550, 11551
Zemlyakov, S. D. *See* Zemljakov, S. D.
Žemuhov, H. K. 13304
Zenor, P. L. 13868
Zepeda, A. *See* ★6785
Zerakidze, Z. S. 1461
Zerling, David 463
Zerner, M. C. 12076
Zessin, Hans 11576
Zettl, A. 636, 10741, 10742
Zhdanov, V. I. *See* Ždanov, V. I.
Zhilin, Pavel A. *See* Žilin, P. A.
Ziegler, E. 7035
Ziegler, H. 1901
Ziegler, M. 4971
Ziegler, Michael R. 7768, 13059
Ziegler, Z. 8086
Zielezny, Z. 3401, 13561
Zieliński, Ryszard ★4057, ★4060
Zielke, R. 1675
Ziemer, William P. 7996, 10631
Ziermann, M. *See* 2138
Zieschang, Heiner 7655
Zijaeva, Z. T. 1467
Žijanov, V. I. 6910
Zil′berman, B. *See* Silbermann, B.
Zilcha, Itzhak 2153, 9615
Žilenko, S. V. 5606
Žilevič, L. I. 10749
Žilin, P. A. 11936
Žilinskas, A. G. 4107
Zimakov, N. N. 6622
Zimerman, A. H. 1946
Zimmer, Horst Günter 7476
Zimmer, Robert J. 2924, 10570, 13038
Zimmer, W. J. 1427
Zimmermann, Wolfgang 7544
Zimmermann-Huisgen, Birge 12835
Zinčenko, N. M. 11533
Zinger, I. M. *See* Singer, I. M.
Zinov′ev, V. A. 12363. *See also* ★4811
Zippin, M. 914
Zirilli, Francesco 2000, 6736, 9465, 9600
Zitarelli, David E. 5378
Žitomirskiĭ, G. I. 215
Ziv, Abraham 5667
Žižiašvili, L. V. 852, 5729, 8131
Zizler, V. 5807, 11032
Zlatanov, G. 11213
Zlatev, I. 2028
Złotkiewicz, Eligiusz 530, 13057
Zmyślony, R. 14249
Zo, Felipe 10997
Zöberlein, Volker 12854
Zograbjan, È. P. 14872a-b
Žohov, A. L. 8080
Zolezzi, T. 3535
Zolotarev, V. M. 8931. *See also* ★11424
Zolotarjuk, O. V. 4435, 4436
Zorat, A. 6587
Zoriĭ, L. M. 1757, 1781
Zorski, Henryk *See* ★11937
Zowe, Jochem 4661, 13527
Zschiesche, Hans-Ullrich 11486
Zsidó, László 3431, 5904
Zubov, L. M. 11930
Zucker, I. J. 244, 253, 6800, 9506, 9507, 9515
Zucker, Steven 313
Zucker, Steven W. 6591
Zuckerman, Susan Lana 2476
Zuev, L. A. 9817
Zuily, C. 3766, 10839
Žuk, M. V. 1663, 4138
Žukova, N. I. 13786
Žukovskiĭ, V. Č. 4402
Žukovskiĭ, V. I. 2234
Zund, J. D. 11207, 12134
Zuparov, T. M. 6239
Žuravlev, Ju. I. 1742
Żurek, Maria 7353
Žurkov, S. N. *See* ★2402, ★2403
Zuse, Konrad ★1689
Žuze, V. P. *See* ★2403
Zvengrowski, P. 8660
Zverkin, A. N. *See* ★12413
Zvirovič, L. F. 7798
Zvonkin, A. K. 14100
Zwanziger, Daniel 1993
Zwas, Gideon 10295
Zweifel, P. F. 2036, 4464, 4466
Zygmunt, Jadwiga 10587

KEY INDEX

Abstracts of papers presented at the Annual Convention of the Operational Research Society of India, Seventh (Kanpur, 1974) 12162
Abstracts of papers presented at the Conference on Methods and Means of Signal Transformation (Riga, 1976) ★14866
Abstracts of the Scientific Conference of the Department of Physics, Mathematics and Natural Sciences, Ninth (Patrice Lumumba Friendship of Nations Univ., Moscow, 1973) ★12413
Accuracy and reliability of cybernetic system 9642
ACM Symposium on Operating Systems Principles, Fifth (Univ. Texas, Austin, Tex., 1975) 9194
ACM Symposium on Theory of Computing, Seventh Annual (Albuquerque, N. M., 1975) ★4161
ACM Symposium on Theory of Computing, Eight Annual (Hershey, Pa., 1976) ★4162
ACM-SIGACT Symposium on the Theory of Computing (Albuquerque, N. M., 1975) ★11828
Acoustic propagation ★11961
Actes du Colloque d'Analyse Fonctionnelle (Bordeaux, 1971) 11076
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 ★3, 2383, 2384, 2386, 2394, 2444, 2652, 3719, 5133, 7429, 7463, 7480, 7534, 7575, 7599, 7604, 7613, 10113, 10162, 10197, 10204, 10210, 10270, 11310, 11342, 12512, 12639, 12677, 12726, 12748, 12765, 12885, 13932
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 ★4, 3304, 3712, 3747, 3768, 5745, 7701, 7709, 7827, 7852, 7862, 8303, 8315, 8535, 8622, 8652, 8653, 8655, 8678, 8709, 8737-8739, 8799, 8842, 8893, 8894, 10502, 10557, 10609, 10637, 10643, 10646, 10885, 11234, 11309, 11319, 11335, 11355, 11463, 11481, 11525, 12655, 12920, 12978, 12982, 12983, 13100, 13109, 13127, 13137, 13146, 13340, 13531, 13537, 13590, 13921, 13949, 13980, 14121, 14123, 14620
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 ★5, 4530, 6364, 7278, 8993, 9004, 9285, 9313, 10042, 10051, 11134, 11144, 11839, 12016, 12062, 12084, 12113, 12354, 12536, 13682, 14498, 14505, 14522, 14546, 14553
Adaptive systems ★2258
Advanced problems and methods in fluid dynamics (Poland, 1975) ★14542
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) 540, 2954, 5455, 7776, 7809, 10598, 13075
Advances in computers, Vol. 14 9149
Advances in game theory (Proc. Second All-Union Conf. on Game Theory, Vilnius, 1971) 2230
Advances in probability and related topics, Vol. 3 8863
Aeronautical fluid dynamics ★4327
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band IV ★7164
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band V ★7165
Algebra ★4888, ★12931
Algebra, No. II 4956, 4959, 7591, 7592
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 376, 378, 1222, 1272, 2387, 2388, 3733, 7256, 8648, 12832
Algebra. Topology. Geometry, Vol. 12 ★9, 305
Algebra. Topology. Geometry, Vol. 13 ★4882
Algebraic geometry ★10339
Algebraic geometry, Oslo 1970 12790
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) 7435, 7459, 10247
Algebraic K-theory, I: Higher K-theories 5239, 12858
Algebraic K-theory, II: "Classical" algebraic K-theory and connections with arithmetic 11338
Algebraic K-theory, III: Hermitian K-theory and geometric applications 2760c
Algebraic Seminar (Kazah State Univ., Alma-Ata, 1972) ★10187
Algebraic theory of machines, languages and semigroups ★12941
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 5834, 5835, 5837, 8292, 8302
Algèbre ★3
Algèbre des catégories ★371
Algorithm specification (Courant Comput. Sci. Sympos. 4, New York Univ., New York, 1971) ★4173, 9147, 14424
Algorithms ★6534, ★12421
Algorithms and complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1976) ★14417
All-Union Algebra Colloquium, Thirteenth (Gomel, 1975) 2
All-Union Conference on Number Theory (Vilnius, 1974) 263
All-Union Conference on Numerical Methods of Linear Algebra, Third (Novosibirsk, 1973) ★6471
All-Union Conference on Problems of Theoretical Cybernetics, Third (Novosibirsk, 1974) 9660
All-Union Conference on Software for Analog-Digital Complexes, Third (Sverdlovsk, 1973) ★1692
All-Union Conference on the Theory and Applications of Differential Equations with Deviating Argument, Fourth (Kiev, 1975) 675
All-Union Topology Conference, Sixth (Tbilisi, 1972), Abstracts 4883
Analyse ★4
Analyse fonctionnelle et applications (Comptes Rendus Colloq. d'Analyse, Inst. Mat., Univ. Federal Rio de Janeiro, Rio de Janeiro, 1972) 8001, 8288
Analyse harmonique sur les gorupes de Lie (Sém. Nancy-Strasbourg, 1973-75) 8171, 11435
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) 1542, 9073, 9077, 11734, 11757, 11769, 11843
Analytic functions ★7760
Analytic methods for the study of the solutions of nonlinear differential equations 775, 3096, 3099, 3331, 4779, 5548, 5549, 5585
Analytic number theory (Proc. Sympos. Pure Math., Vol. XXIV) 5151
Analytic and qualitative methods of the theory of differential equations 7959
Analytical geometry ★12778
Anniversary:
Association for Computing Machinery, 25th 4031
Birth of S. A. Bogomolov (100th) 12445
Birth of N. E. Kočin (75th) 4899
Birth of Alexandru Pantazi (80th) 9945
Birth of Erhard Schmidt (100th) 7179
Annual Asilomar Conference on Circuits, Systems, and Computers, Ninth (Pacific Grove, Calif., 1975) ★9825
Annual Conference on Computer Graphics, Interactive Techniques and Image Processing, Third—SIGGRAPH '76 (Proc., Wharton School, Univ. Pennsylvania, Philadelphia, Pa., 1976) ★11827
Annual Convention of the Operational Research Society of India, Seventh (Kanpur, 1974) 12162
Annual IEEE Symposium on Switching and Automata Theory, 14th (Univ. Iowa, Iowa City, Iowa, 1973) ★4884, 14453
Annual IEEE Symposium on Switching and Automata Theory, 16th (Berkeley, Calif., 1975) ★1690
Annual Meeting of the American Society of Mechanical Engineers, Winter (Houston, Tex., 1975) ★9283
Annual Spring Topology Conference, Ninth (Memphis State Univ., Memphis, Tenn., 1975) ★9918
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) ★1690, 9155, 11176, 11829, 14437, 14441
Annual Symposium on Switching and Automata Theory, 15th (1974) 2346, 2440, 4168, 4180, 4188, 4189, 4193, 4842, 6539, 6553, 11842, 11854, 11856, 12222, 14450
Application of functional analysis in approximation theory, No. 1 10957
Application of functional methods to the boundary value problems of mathematical physics 3167, 8013, 8372, 9090, 9091
Applications of Walsh functions (Proc. Sympos., Washington, D. C., 1971) 2288
Applied mathematics ★4887
Applied mathematics and transportation problems 5215
Applied statistics (Proc. Conf., Dalhousie Univ., Halifax, N. S., 1974) 11638
Approaches to integer programming ★14770
Approximate solution of boundary value problems and of functional equations 3472, 3473, 6481
Approximation of functions and operators 3256, 3257, 8116
Approximation theory (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1973) 823
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) ★5673, 13372, 13374, 13418, 13423, 14312, 14313, 14402
Arbeiten aus Anlaß des 70. Geburtstages von Hermann Boerner ★7154
Arithmetical theory of quadratic forms, I 5115
Army Numerical Analysis and Computers Conference (St. Louis, Mo., 1975) ★7159
Army Numerical Analysis and Computers Conference (Research Triangle Park, N. C., 1976) ★9916
Artificial intelligence ★6594
Asilomar Conference on Circuits, Systems, and Computers, Ninth Annual (Pacific Grove, Calif., 1975) ★9825
Astronautics ★11962
Astrophysique et spectroscopie (Comm. Vingtième Colloq. Internat. Astrophysique, Liège, 1975) 9581
Asymptotic methods and stochastic models in wave propagation problems 4326
Asymptotic methods in the theory of nonstationary processes ★1831
Asymptotic and qualitative methods in the theory of nonlinear oscillations 4109, 4110, 10760, 10791
Atti del Convegno Internazionale di Geometria Differenziale (Ist. Geom., Univ. Bologna, Bologna, 1976) ★8457
Australian Conference on Combinatorial Mathematics, Fourth (Univ. Adelaide, Adelaide, 1975) ★10024
Automata, No. 1 ★9826
Automata, languages and programming (Proc. Sympos., Rocquencourt, 1972) 4183
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) ★9164, 11857, 12501, 12509, 14440, 14462, 14868
Automata theory ★4884, ★12941

Automata theory and formal languages (Second GI Conf., Kaiserslautern, 1975) 12510
Automated theorem proving ★4209
Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschungsinst., Oberwolfach, 1969) 4191, 9128
Automatic and remote control III (Proc. Third Congr. Internat. Federation Automatic Control, London, 1966) 12301
Automation ★7092
Automorphic forms in number theory 10148
Aviation ★11962
Axiomatic set theory (Proc. Sympos. Pure Math., Vol. XIII, Part II) 4982
Barlow's tables of squares, cubes, square roots, cube roots and reciprocals of all integers up to 15000 ★4032
b-Functions ★578
Basic theory of programs (Proc. Third Sympos., Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) ★4160
Beiträge zur Algebra und Geometrie, 2 308, 12582
Beiträge zur algebraischen Geometrie 2640, 5256-5259, 10286, 12796
Beiträge zur Mechanik (Festschrift zum siebzigsten Geburtstag Udo Wegner) 7975
Beiträge zur Theorie nichtnormierbarer topologischer Algebren ★3425
Bibliography:
Berenblut, I. I. 9943
Bernays, Paul 4905
Birnbaum, Z. W. 12455
Bos, Werner 7176
Čaplygin, S. A. ★9963
D'Addario, Raffaele 9937
Demidovič, B. P. 9934
Denjoy, Arnaud ★2409
Diviš, Bohuslav 12462
Eilenberg, Samuel 2388
Fomin, S. V. 29
Forder, H. G. 9951
Fulkerson, D. R. 9947
Gahov, F. D. 33
Golovin, O. N. 30
Gonseth, Ferdinand 37
Hut'a, Anton 31
Kargapolov, M. I. 9957
Korous, Josef 9948
Koutský, Zdeněk 9940
Künneth, Hermann 7177
Laptev, B. L. 4902
Linnik, Ju. V. 9936
de Lyra, Carlos B. 2396
Mateescu, Cristea 12457
Mostowski, Andrej 2398
Rasulov, M. L. 4900
Rényi, Alfred ★9960-★9962
Robinson, Abraham 12454
Rosenfeld, Léon 9932
Satō, Isuke 38
Šidlovskiĭ, A. B. 32
Sierpiński, Wacław ★2405, ★2406
Thomas, Ivo 12447
Timošenko, S. P. ★12467
Tucker, Albert William 12442
Urabe, Minoru 41, 12461
Vavilov, S. I. ★9942
Wickens, Charles Henry 9941
Ždanov, G. M. 42
Adaptive control systems 2257
Algebraic cycles 305
Artificial intelligence 9190
Automatic integration 14321
Computer aided design of digital systems ★7090
Convergence spaces 13825
Decision theory 9614
General relativity and gravitation 6840-6844, 12102-12105
German dissertations (1961-1970) ★7162
Graph theory 118
Bibliography: *(Continued)*
Groups with two generators ★410
Hjelmslev geometry 13720
Identification and estimation in econometric systems 9633
Information science ★9914
Laplace transform inversion 1547
Mathematical research in Armenia (1971-1975) 7175
Maximum likelihood estimation 11588
Moduli problems 305
Nichtlineare Programmierung ★6956
Nonlinear programming ★6956
Numerical algebra ★14303
Numerical quadrature and curvature ★11740
Pattern recognition 6590
Point processes 11422
Pressure waves and elastic shells 1840
Random number generation and testing 11728
Reliability, Bulgarian 12188
Ridge regression 11669
Scientific works of Yu. V. Linnik 9936
Statistical bibliographies 3888, 11579-11583
Statistical model identification 11691
Statistics 11584
Statistics teaching 11578
Stellar astronomy 12103
Stochastic approximation 14269
Summability methods 3209
Topological groupoids 459
Transformation of data 11586, 11587
Unified field theories 12104
Biennial Fluid Dynamics Symposium on Advanced Problems and Methods in Fluid Dynamics, XII (Poland, 1975) ★14542
Biochemical problems ★6701
Biocybernetics ★4731
Biography:
Bernays, Paul 4903, 4904
Birnbaum; Z. W. 12455
Čaplygin, S. A. ★9963
Dan-i, Takeshi 12453
Demidovič, B. P. 9934
Einstein, Albert ★9938
Forder, Henry George 9950
Linnik, Ju. V. 9944
de Lyra, Carlos B. 2396
Satō, Isuke 38
Sierpiński, Wacław ★2405, ★2406
Tucker, Albert William 12441, 12443
Vavilov, S. I. ★9942
Weyl, H. 35
Wickens, Charles Henry 9941
Biological systems ★6981
Birthday:
Aleksandrov, P. S. (80th) ★9904
Boerner, Hermann (70th) ★7154
Burau, Werner (70th) ★9906
Creangă, Ion (65th) 12451
Demidovič, B. P. (70th) 9934
Gahov, F. D. (70th) 33
Golovin, O. N. (60th) 30
Graffi, Dario (70th) ★9907
Hellwig, Zdzisław (50th) ★12415
Hut'a, Anton (60th) 31
Konjus, A. A. (80th) 12459
Korous, Josef (70th) 9948
Laptev, B. L. (70th) 4902
Lavrent'ev, M. A. (75th) ★9909
Mateescu, Cristea ★9910, 12457
Mitropol's'kiĭ, Ju. O. (60th) 12450
Novožilov, V. V. (60th) ★12425
Rasulov, M. L. (60th) 4900
Remez, È. Ja. (80th) 9946
Šalát, Tibor (50th) 34
Šidlovskiĭ, A. B. (60th) 32
Skopec, Z. A. (60th) 12458
Sokolov, Ju. D. (80th) 7178
Tihonov, A. N. (70th) 9929, 12460
Boundary value problems for differential equations, 3 11743
Boundary value problems of mathematical physics, 7 4157
Boundary value problems of mathematical physics, 9 708
Boundary value problems of mathematical physics and related questions in the theory of functions, 7 3188
Boundary value problems of mathematical physics, and related questions of the theory of functions, 8 13347
Boundary value problems of mathematical physics and related questions in the theory of functions, 9 ★10810
Boundary value problems of the theory of heat conduction 1833, 4361, 4363, 9100, 9709
Brauer groups (Proc. Conf., Northwestern Univ., Evanston, Ill., 1975) ★12736
Bull. Soc. Math. France, Mém. No. 46 ★3734
Bulletin GRG, No. 23 12101
Bulletin GRG, No. 24 12102
Bulletin GRG, No. 25 12103
Bulletin GRG, No. 26 12104
Bulletin GRG, No. 27 12105
Bulletin GRG, No. 28 6839
Bulletin GRG, No. 29 6840
Bulletin GRG, No. 30 6841
Bulletin GRG, No. 31 6842
Bulletin GRG, No. 32 6843
Bulletin GRG, No. 33 6844
C^*-algebras and their applications to statistical mechanics and quantum field theory ★9902
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 5933, 5946, 7020, 8711, 9788, 11137, 14844
Cambridge Summer School in Mathematical Logic (1971) 4932
Category theory ★371
Category theory applied to computation and control (Proc. First Internat. Sympos., San Francisco, Calif., 1974) 6560, 7017
Celestial mechanics ★14484, ★14485
Ceremonial Scientific Session dedicated to Nicolas Copernicus, 1972 ★12414
Certain questions of group theory (Proc. Algebra Sem., No. 2, Riga, 1969/1970) 2804
Certain questions on simulation and systems control 649, 652, 1799, 1811, 2261, 2281, 3111, 4788, 6233, 7990, 9678
Chemical and biochemical problems ★6701
Cinquantenario della Unione Matematica Italiana, 1922-1972 2426, 4914, 5251, 7218, 7261, 12529
Circuits and systems theory ★12403
Classes ★2458
Coding theory and information modeling, No. 2 ★2316
Cognition and learning ★4732
Cohen-Macaulay-Rings ★304
Collection:
Albert, Abraham Adrian 609, 1080, 10350, 12645
Aleksandrov, P. S. ★9904
Bhatnagar, P. L. 1033, 1122, 1862, 3255, 4305, 5827, 7686, 8265, 11121
Birnbaum, Z. W. ★11709
Boerner, Hermann ★7154
Bompiani, Enrico 785, 1116, 1128, 1134, 1277, 2654, 2761, 2762, 5069, 5989, 7733, 7823, 8463, 8496, 8510, 8692, ★9905, 10621, 10825, 11157, 12779, 12788, 13439, 13918, 13919
Brelot, Marcel 3862, 5484, 5486, 7825, 8056, 8817
Burau, Werner ★9906
Busemann, Adolf 1054
Carathéodory, Constantin; Plemelj, Josip; Pompeiu, Dimitrie and Tiţeica, Gheorghe 3641, 13464
Clifford, Alfred Hoblitzelle 453
Forder, H. G. ★7160
Graffi, Dario ★9907
Grincevičius, Kleopas 11183

Collection: *(Continued)*
Heinrich, Helmut 11905
Hellwig, Zdzisław ★12415
Householder, Alston S. 6476
Kupradze, V. D. 407
Kuroš, Aleksandr Gennadievič 369
Laptev, German Fedorovič 11191
Lavrent'ev, M. A. ★9909
Levinson, Norman ★9908
Linnik, Juriĭ Vladimirovič 9935, 9936, 9944
Lorentz, G. G. 828
de Lyra, Carlos B. ★2397
Manea, Gheorghe 6612, 9303
Mateescu, Cristea ★9910
Mioc, Vasile 10251
Mitrinović, D. S. ★7155
Moshinsky, Elena and Moshinsky, Marcos ★4885
Mostowski, Andrzej ★2412
Mostowski, Andrzej (IV) 7253
Muskhelishvili, Nikolai Ivanovich 519
Neustadt, Lucien W. 11138
Neyman, Jerzy 9018, 11483
Norden, Aleksandr Petrovič 11767
Petrovskiĭ, I. G. ★7161
Petrovskiĭ, Ivan Georgievič, (1901-1973), I 3142, 3166, 10677, 10873, 11400
Petrovskiĭ, Ivan Georgievič, (1901-1973), II 1853
Picone, Mauro 10266
Picone, Mauro (II) 10823
Răduleţ, Remus (I) 705
Rényi, Alfréd (II) 5026
Richter, Wolfgang 3803, 3819, 3858, 8784, 14059
Sansone, Giovanni 1809, 3084, 3114, 3651, 6192, 7954
Satō, Isuke ★10, 38, 7434, 8310, 8514, 10232
Schmidt, Adam 6492, 7453, 8105
Serre, Jean-Pierre, Part II ★7156
Shimizu, Tatsujiro 5066, 6119, 8222, 11305, 11306
Siegel, Carl Ludwig (I) 5153
Ślebodziński, Władysław 1182, 13774
Smirnov, V. I. 5617, 6190, 13611
Snedecor, George W. ★6337
Soriano, Luis I. (1903-1973) 13973
Taussky-Todd, Olga 2682, 12804
Teng, Tsing Houa 5218, 8947
Urabe, Minoru ★9911
Urban, Paul 9452
Vulih, B. Z. 886-888, 911, 1008, 1083, 1085, 2142, 5787, 5790, 5792, 5798
Walsh, J. L. (I) 9040
Walsh, J. L. (VII) 10605
Ważewski, Tadeusz (IV) 10848
Adaptive systems 2257, ★2258, 7078, 9808, 9821, 12266, 12335
Algebra, 1 2743
Algorithms and programs, No. 5 ★6534
Candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III 695, 2665, 11162
Differential Geometry 1111, 5980, 5985, 8465, 8476, 8477, 13710, 13713, 13736, 13742
Equations of mathematical physics, 4 2981, 4311
Equations of mathematical physics, 5 4246, 4263
Equations of mathematical physics, 6 ★9903
Functional analysis, 2 994, 995, 6530
Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 10144, 10187, 10200
Social choice 4572
Soochow University 483, 1148
Theory of functions, 6 3513
Colloque sur l'Algèbre des Catégories, Deuxième (Amiens, 1975), Résumés des Conférences ★371
Colloque d'Algèbre Commutative (Rennes, 1972) 314
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) 1324, 5575, 7859
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) 1211, 8741, 13975
Colloque sur les Fonctions Sphériques et la Théorie des Groupes (Univ. de Nancy, Nancy, 1971) 10509
Colloque sur les Formes Quadratiques (Montpellier, 1975) ★12641
Colloque International C.N.R.S. sur les Équations aux Dérivées Partielles Linéaires (Orsay, 1972) 3770, 8025
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires 900, 1356, 2894, 3807, 8771
Colloque sur la Programmation (Paris, 1974) ★6536
Colloque sur la Théorie des Graphes (Paris, 1974) 138, 171, 2512, 5027, 10082
Colloque sur la Théorie des Jeux (Bruxelles, 1975) 2222, 9689, 9693, 10061, 12231
Colloques Internationaux du Centre National de la Recherche Scientifique, No. 248 ★12000
Colloquia Mathematica Societatis János Bolyai, Vol. 12 ★2138
Colloquium on Automata, Languages and Programming, Second (Univ. Saarbrücken, Saarbrücken, 1974) ★9164
Colloquium on Group Theoretical Methods in Physics (Univ. Aix-Marseille, 1972) ★14582
Colloquium on Symbolic Logic (Univ. Complutense, Madrid, 1975) ★4909
Combinatorial algorithms (Courant Comput. Sci. Sympos., No. 9, 1972) 9659
Combinatorial mathematics, IV (Proc. Fourth Australian Conf., Univ. Adelaide, Adelaide, 1975) 7593, ★10024, 10052, 12567
Combinatorial methods for experiment planning 10040, 11678
Combinatorial programming: methods and applications (Proc. NATO Advanced Study Inst., Versailles, 1974) 2487
Combinatorics ★106, ★2471
Commemoration volumes for Prof. Dr. Akitsugu Kawaguchi's seventieth birthday 1115, 7953, 8526
Complex analysis (Centro Internaz. Mat. Estivo, I Ciclo, Bressanone, 1973) 3005, 3016
Complex systems ★2378
Complexity ★14417
Complexity of algorithms and classes of computable functions ★44
Complexity of computation (Proc. Sympos., New York, 1973) 11849
Comptes Rendus des Journées Mathématiques de la Société Mathématique de France (Univ. Sci. Tech. Languedoc, Montpellier, 1974) 2322
Computable functions ★44
Computational mechanics (Internat. Conf. on Computational Methods in Nonlinear Mech., Austin, Tex., 1974) 1607, 11940, 14539
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 1669, 1671, 9276, 9756, 11979, 14496
Computational methods and problems in aeronautical fluid dynamics (Proc. Conf., Univ. Manchester, Manchester, 1974) ★4327
Computational practice in mathematical programming 4093, 6952, 12200
Computer graphics ★11827
Computer nets (Suppl. to Proc. Seventh Hawaii Internat. Conf. on System Sci., Univ. Hawaii, Honolulu, Hawaii, 1974) ★11879
Computer performance modeling, measurement and evaluation ★11880
Computer science ★1690
Computer science and scientific computing (Proc. Third ICASE Conf., Williamsburg, Va., 1976) ★4158, 14700
Computer systems ★9825
Computer systems 1972 ★9123
Computer technology ★21, ★7092
Computers in algebra and number theory 7109
Computing ★2471, ★11828
Computing equilibria: how and why (Proc. Internat. Conf., Comput. Centre, Polish Acad. Sci., Toruń, 1974) ★9604
Computing methods in applied sciences (Second Internat. Sympos., Versailles, 1975) ★14476
Computing systems 1973 (Proc. Second Texas Conf., Univ. Texas, Austin, Tex., 1973) ★14418
Computing systems 1974 (Proc. Third Texas Conf., Univ. Texas, Austin, Tex., 1974) ★14419
Computing systems 1975 (Proc. Fourth Texas Conf., Univ. Texas, Austin, Tex., 1975) ★14420
Computing systems 1976 (Proc. Fifth Texas Conf., Univ. Texas, Austin, Tex., 1976) ★14421
Computing theory ★4162
Concept of probability in psychological experiments ★8768
Conference on Analytic Functions, Sixth (Krakow, 1974) ★7760
Conference on Brauer Groups (Northwestern Univ., Evanston, Ill., 1975) ★12736
Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) ★2471
Conference on Computational Methods and Problems in Aeronautical Fluid Dynamics (Univ. Manchester, Manchester, 1974) ★4327
Conference on Computing Systems, Second (Univ. Texas, Austin, Tex., 1973) ★14418
Conference on Computing Systems, Third (Univ. Texas, Austin, Tex., 1974) ★14419
Conference on Computing Systems, Fourth (Univ. Texas, Austin, Tex., 1975) ★14420
Conference on Computing Systems, Fifth (Univ. Texas, Austin, Tex., 1976) ★14421
Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) ★6055
Conference on Differential Equations and Applications (Ruse, 1975) ★9912
Conference on Differential Geometry (Michigan State Univ., E. Lansing, Mich., 1976) ★11178
Conference on Differential Geometry and Continuum Mechanics (Jabłonna, 1970) ★11937
Conference on Ergodic Theory and Topological Dynamics (Kibbutz Lavi, 1974) 512, 1302
Conference for Formal Methods in the Methodology of Empirical Sciences (Jabłonna, June 17-21, 1974) 7197
Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) 5090, 12909
Conference on Harmonic Analysis (Univ. Maryland, College Park, Md., 1971) 3272, 10499
Conference of the Lithuanian Mathematical Society, Sixteenth (Šiauliai, 1975) 2374
Conference in Mathematical Logic—London '70 97, 7247
Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975) ★14484, ★14485
Conference on the Numerical Solution of Differential Equations (Dundee, 1973) 11806, 14379, 14393
Conference on Optimization in Action (Univ. Bristol, Bristol, 1975) ★9653
Conference on Patterns and Processes in the Plane (Swansea, 1975) 3779
Conference on Population genetics and Ecology (Israel, 1975) ★2238
Conference on Questions of Mathematics, Algebra and Geometry (Novosibirsk. Ped. Inst., Novosibirsk, 1973) ★24
Conference on Reliability and Fault Tree Analysis (Univ. California, Berkeley, Calif., 1974) ★11709
Conference on Set Theory and Hierarchy Theory, Second (Bierotowice, 1975) ★2412
Conference on Singular Points of Hypersurfaces and *b*-Functions (Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) ★578
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 625, 634, 3075, 3097, 3240, 3384, 3468, 5546, 5568, 5600, 5913, 7808, 7944, 7951, 7974, 8016, 8035, 8047, 8361, 10751, 10817, 10870, 13185, 13186, 13246
Conferences du Colloque sur l'Algèbre des Catégories (Amiens, 1973), II 11272

Congrès International des Mathématiciens, Seizième (Nice, 1970) ★3-★5
Constructive mathematics ★7190, ★9966
Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) 8103, 13391
Continental shelf dynamics (Seventh Liège Colloq. on Ocean Hydrodynamics, Liège, 1975) ★14563
Continuity and stability in problems of probability theory and mathematical statistics ★11424
Continuum mechanics ★11937
Continuum mechanics and related problems of analysis 4241
Contributions to analysis (a collection of papers dedicated to Lipman Bers) 10594, 13150
Contributions to logic and methodology in honor of J. M. Bocheński 7186
Control and dynamic systems, Vol. 11 4688, 4770, 9739
Control and dynamic systems, Vol. 12 4755
Control methods and models, No. 6 13478
Control of multivariable systems ★2375
Control theory ★12416-★12418
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) 2310, 7048, 11969, 14833
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. I ★12416-★12418
Convegno Internazionale di Geometria Differenziale (Ist. Geom., Univ. Bologna, Bologna, 1967) ★8457
Convegno sulla Programmazione Matematica e sue Applicazioni (INDAM, Roma, 1974) ★12198
Convegno sulla Teoria Matematica dell' Elettromagnetismo (INDAM, Roma, 1974) 2379
Convegno sulle Trasformazioni Quasiconformi e Questioni Connesse (INDAM, Roma, 1974) 2379
Convergence spaces ★6055
Cosmic rays ★14584
Courant Computer Science Symposium, 4 (Courant Inst. Math. Sci., New York Univ., New York, 1971) ★4173
Crash course on Kleinian groups 543
Credibility: theory and applications (Proc. Berkeley Actuar. Res. Conf., Univ. California, Berkeley, Calif., 1974; dedicated to Edward A. Lew) 1523, 1525, 4015, 6434, 6435, 11711, 14294
Current problems of analytic number theory 7371, 7386
Current problems in mathematics, Vol. 1 3560
Current problems in mathematics, Vol. 2 1068, 2723
Current problems in mathematics, Vol. 3 ★11, 8830, 10153
Currents in the theory of computing 14438, 14445
Curriculum vitae of A. Mostowski 2398
Curriculum vitae Léon Rosenfeld 9932
Cybernetics ★4731, ★4732, ★4886, ★4887, ★6217, ★9917
Cybernetics and computer technology, No. 23 4671
Cybernetics encyclopedia, Vol. 1 ★9919
Cybernetics encyclopedia, Vol. 2 ★9920
Cybernetics in marine transportation, No. 4 ★9827, 12411
Decision and organization (a volume in honor of Jacob Marschak) 4577, 4578, 6899, 6905, 9606, 9634, 12174, 12367
Decision theory ★11591
Delay and functional differential equations and their applications 10802, 13504
Arnaud Denjoy: évocation de l'homme et de l'oeuvre ★2409
Dictionaries: Polish-Russian ★12430
Difference methods of solution of boundary value problems for integro-differential equations 1676, 3165, 4153
Differentiable functions ★12994
Differential equations ★22, ★9912, ★12424
Differential equations and inequalities 739, 7722, 13307, 13308
Differential games: a collection of articles 4686
Differential game issue 6970, 6972, 6980, 9701, 12239, 14743
Differential geometry ★8457, ★13734
Differential geometry, No. 1 206, 3739, 6003, 8493, 8705, 11203, 11212, 14490
Differential geometry, No. 2 ★5982
Differential geometry (in honor of Kentaro Yano) 10679
Differential geometry (Proc. Conf., Michigan State Univ., East Lansing, Mich., 1975) ★11178
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 1) 6038, 8524, 8530, 11240
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) 11416, 13332
Differential geometry and continuum mechanics (Proc. Conf., Jabłonna, 1970) ★11937
Differential geometry, Lie groups and mechanics, II ★12419
Differential and integral equations with singular coefficients 10836
Differential topology and geometry (Proc. Colloq., Dijon, 1974) 1248, 1286, 8708, 8723
Differentialgeometrie im Großen (Ber. Tagung, Math. Forschungsinst., Oberwolfach, 1969) 11244, 11382
Différents aspects de la positivité 12769
Directory:
Scientists (general relativity and gravitation) 6839
Scientists (general relativity and gravitation), corrections and addenda 12101
Dirichlet distribution ★11721
Discrete control systems 2266
Discrete mathematics 2511, 2532, 10044, 10066
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) 471, 617, 7868, 10490, 10492, 12976
Discussion on likelihood 6338
Dissertationen in Mathematik an den Hochschulen der Bundesrepublik Deutschland in der Zeit von 1961 bis 1970 ★7162
Dynamical systems (Salvador, 1971) 1308
Dynamical systems, and questions on the stability of the solutions of differential equations 687, 771, 3101, 3108, 5562, 5565, 8733, 8734, 10758, 10773, 11395, 11396
Dynamics ★7157
École d'Été de Probabilités de Saint-Flour, IV—1974 1355
Ecology ★2238
Econometric Society Winter Meetings (Toronto, Ont., 1972) ★6896
Economics ★4584, ★6891
Electronic mathematical simulation and optimization of processes (Proc. Res. Sem., Kiev, 1975) ★9828
Elementary modes of excitation in spherical odd-mass nuclei ★14583
Elettromagnetismo 2379
Encyclopedias: Cybernetics ★9919, ★9920
Engineering systems ★4731
Équations différentielles et fonctionnelles non linéaires 1622, 3090, 3106, 5591, 5768, 10798
Equations fonctionnelles ★3197
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 1568, 1713, 2134, 3947, 3996, 4633, 9045, 9069, 11741, 14347
Esquisses mathématiques, No. 3 7581, 7582
Esquisses mathématiques, No. 5 7576
Esquisses mathématiques, No. 7 380
Esquisses mathématiques, No. 11 2749
Esquisses mathématiques, No. 12 10377
Esquisses mathématiques, No. 18 12852
Esquisses mathématiques, No. 22 5310
Esquisses mathématiques, No. 23 10375, 12862, 13969
Esquisses mathématiques, No. 24 ★12, 11375, 13983
Esquisses mathématiques, No. 25 ★372
Estimation theory (Special issue of Information Sci.) 9797, 9798
European Meeting on Cybernetics and Systems Research, Second (Vienna, 1974) ★4731, ★4732
Existence theorem issue of J. Optimization Theory Appl. ★1040, 13662
Existence theory in the calculus of variations and optimal control 3536
Fault-tolerant computing ★1693
Fault tree analysis ★11709
Festband anläßlich des 65. Geburtstages von Ernst Peschl 7457
Finite element analysis of transient nonlinear structural behavior (Winter Annual Meeting, Amer. Soc. Mech. Engineers, Houston, Tex., 1975) ★9283
Fixed point theory and its applications (Proc. Sem., Dalhousie Univ., Halifax, N. S., 1975) ★11112
Fluid dynamics ★4327, ★14542
Fluid dynamics transactions, Vol. 5, Part I (Ninth Sympos. Advanced Problems and Methods in Fluid Mech., Kazimierz, 1969) ★14543
Fluid and gas mechanics ★9288
Fluid mechanics ★9289, ★14543
Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973) 10658
Fonctions de plusieurs variables complexes, II (Sém. François Norguet, Janvier 1974-Juin 1975) 5496, 7867
Formal languages and programming (Proc. Sem., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) ★1691, 4170, 4201, 9183, 11861
Formalized languages ★7191
Formes quadratiques ★12641
Formulas and theorems for the special functions of mathematical physics 3047
Forschungsinstitut für Mathematik, ETH. ★3713
Foundations of computer science ★1690
Foundations of computer science (Lecture Notes, Advanced Course Univ. Amsterdam, Amsterdam, 1974) 6599, 9140, 14422
Foundations of geometry (Proc. Conf., Univ. Toronto, Toronto, Ont., 1974) 2861, 3566
Foundations of mathematical biology, Vol. I 2248
Foundations of mathematical biology, Vol. II 7015
Foundations of mathematical biology, Vol. III 14808, 14809
Foundations of statistical inference (Proc. Sympos., Univ. Waterloo, Waterloo, Ont., 1970) 6344, 11595, 11600, 14172
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) 3769, 7845, 7997, 10878, 11409
Frontiers of pattern recognition (Proc. Internat. Conf., Univ. Hawaii, Honolulu, Hawaii, 1971) 11874
Frontiers of quantitative economics (Invited Papers, Econometric Soc. Winter Meetings, Toronto, Ont., 1972), Vol. II ★6896
Functional analysis ★6891, ★12416-★12418
Functional analysis and its application 3389
Functional analysis and its applications (Internat. Conf., Madras, 1973) 3295, 8157, 8158, 8281, 8291, 12969
Functional analysis and applications (Proc. Sympos., 1972) 7853, 8331, 10647, 13559
Functional analysis and the theory of functions, No. 8 4483
Functional equations ★3197, ★8059
Gas dynamics ★4493
Gas dynamics and heat transfer, No. 4 1871
Genealogical mathematics (Proc. MSSB Conf., Univ. Texas, Houston, Tex., 1974) 9738
General systems ★4731
General topology and its relations to modern analysis and algebra, III 1161, 3707, 4987
Generalized recursion theory (Sympos., Oslo, 1972) 79, 80, 82, 4979
Geometria differenziale ★8457
Geometric measure theory and minimal surfaces (C.I.M.E., 1972) 8418, 8419
Géométrie ★4
Géométrie analytique ★12778
Géométrie de la dimension infinie ★3734
Géométrie symplectique et physique mathématique (Colloq. Internat. C.N.R.S., Aix-en-Provence, 1974) ★12420

Geometry ★9,★4882,★13734
Geometry collection, No. 9 8464
Geometry collection, No. 12 5990, 8478, 11185, 11194
Geometry collection, No. 13 315, 10329
Geometry collection, No. 14 8486
Geometry collection, No. 15 ★1094, 10090, 10256, 11200, 11201, 13740, 13741, 13961
Geometry of homogeneous spaces 5994
Geometry of imbedded manifolds 1095-1098, 1103, 1104, 3605, 5999, 8432, 8433, 8468
Geometry of manifolds (Proc. Sympos., R.I.M.S., Kyôto Univ., Kyôto, 1972) 1242
Geometry of metric and linear spaces (Proc. Conf., Michigan State Univ., East Lansing, Mich., 1974) 901, 3588, 3589
Geometry of Riemannian spaces 1110, 11210
Geometry and topology, No. 1 327-329, 1105, 2092, 3582, 3602, 3604, 3610, 7464, 8429, 10262, 11161, 11202, 11246, 11254, 13803, 13821
Geometry and topology, No. 2 ★9913
Towards global optimisation (Proc. Workshop, Univ. Cagliari, Cagliari, 1974) 6503
Graph theory ★2471
Graph theory and computing 7305
Graphentheorie ★106
Gravitation ★2380
Group theoretical methods in physics ★14582
Group theory ★5322,★10384
Groups with subgroups having prescribed properties 7643
Grundlagen der Geometrie und algebraische Methoden 13712
Hamiltonian dynamics in economics ★4584
Handbook of mathematical functions with formulas, graphs, and mathematical tables 4033-4041
Harmonic analysis ★13461
Harmonic analysis on homogeneous spaces (Proc. Sympos. Pure Math., Vol. XXVI) 7788
Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) ★9124
Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) ★9125
Hierarchy theory ★2412
Hilbert problems ★7158
Hilbert space operators and operator algebras (Proc. Internat. Conf., Tihany, 1970) 11103
In honor of Stavros M. Plakidis 4964
Hungarian Conference on Operations Research, Sixth (Eger, 1974) ★2138
Hyperfunctions and pseudo-differential equations 8747
Hyperfunctions and theoretical physics (Rencontre, Nice, 1973; dédié à la mémoire de A. Martineau) 1968, 7849
Hypergraph Seminar (Proc. First Working Sem., Ohio State Univ., Columbus, Ohio, 1972) 2514
ICASE Conference on Scientific Computing, Third (Williamsburg, Va., 1976) ★4158
Identification of parameters in distributed systems (Joint Automat. Control Conf., Univ. Texas, Austin, Tex., 1974) 4752
IEEE Argonne Workshop on Automated Theorem Proving (Argonne Nat. Lab., Argonne, Ill., 1975) ★4209
IEEE Symposium on Switching and Automata Theory, 14th Annual (Univ. Iowa, Iowa City, Iowa, 1973) ★4884
Image processing ★11827
Imbedding theorems and their applications (Proc. Sympos., Baku, 1966) 5417
INDAM, Roma, Convegno sulla Teoria Matematica dell'Elettromagnetismo (Febbraio, 1974) 2379
INDAM, Roma, Convegno sulle Trasformazioni Quasiconformi e Questioni Connesse (Marzo, 1974) 2379
Indexes:
Acta Arith., Tomes XVI-XXX (1969-1976) 4889
Comm. Math. Phys., Vol. 1-50 (1965-1976) 25
Inequalities, III 5409
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) 3275, 5047, 6062, 12570
Information modeling ★2316
Information processing. Functional analysis 3421, 11663
Information processing 71 (Proc. IFIP Congress, Ljubljana, 1971), Vol. 1 1696, 14465
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 1581, 1699, 1736, 2166, 4105, 4810, 6928, 9058a, 9126, 9190, 9191, 9896, 12392, 14336, 14429, 14433
Information science, Vol. 1 ★9914
Information systems ★4159
Integral and differential operators ★22
Intégration vectorielle et multivoque (Colloq., Univ. Caen, Caen, 1975) 2908
Interactive techniques ★11827
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 630, 656, 668, 670, 683, 1042, 1059, 2249, 3093, 3323, 3503, 6112, 7928, 7958, 7963, 8053, 8391, 10525, 10803, 11139, 11150, 13238
International Conference on Functional Equations (Zakopane, 1967) ★8059
International Conference on Noncommutative Ring Theory (Kent State Univ., Kent, Ohio, 1975) ★10306
International Conference on Operations Research, Second (Eger, 1974) ★2138
International Congress of Mathematicians (Nice, 1970), Papers of Soviet mathematicians ★6
International Congress of Mathematicians, Sixteenth (Nice, 1970) ★3-★6
International Congress of Mathematicians, Seventeenth (Vancouver, B. C., 1974) ★7,★8
International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973) ★2161,★2162
International School of Physics "Enrico Fermi", Course LX ★9902
International Symposium on Approximation Theory (Univ. Texas, Austin, Tex., 1976) ★5673
International Symposium on Computer Performance Modeling, Measurement and Evaluation (Harvard Univ., Cambridge, Mass., 1976) ★11880
International Symposium on Computing Methods in Applied Sciences, Second (Versailles, 1975) ★14476
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 968, 969, 1015, 3456, 5863, 6213
International Symposium on Theoretical Programming (Novosibirsk, 1972) 4164, 6542, 6563, 9127, 9130, 9132, 9134, 9139, 11855
Internationaler Leibniz-Kongress (Hannover, 1966) ★7164,★7165
Investigations in constructive mathematics and mathematical logic, VI 74
Investigations on linear operators and the theory of functions, V 10884
⊨ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 81, 2467, 4969, 4980, 4981
⊨ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 67, 72, 73, 2431, 4929, 7219, 7231, 9982, 9984, 12494
Israel Annual Conference on Aviation and Astronautics, Eighteenth (Tel Aviv/Haifa, 1976) ★11962
Iterationsverfahren, Numerische Mathematik, Approximationstheorie 1686
Itogi Nauki i Tehniki ★9,★11,★13,★964,★4882,★6217,★9914
Jahrbuch Überblicke Mathematik, 1975 9610
Jahrbuch Überblicke Mathematik, 1976 3280, 3371
Jahrestagung der Gesellschaft für Informatik, Vierte (Berlin, 1974) 9172, 9181
Jahrestagung der Gesellschaft für Informatik, Fünfte (Dortmund, 1975) 9142
Japan-U.S. Seminar on Applications of Automorphic Forms in Number Theory (Ann Arbor, Mich., 1975) 10148
Japan-U.S. Seminar on Learning Process in Control Systems (Nagoya, 1970) ★6535
Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) 631, 674, 7797
Stanisław Jaśkowski's achievements in mathematical logic (Proc. 20th Conf. History of Logic, Cracow, 1974) 86
Joint Session of the Aristotelian Society and the Mind Association (Univ. Kent, Canterbury, 1975) ★4910
Joint Workshop on Pattern Recognition and Artificial Intelligence (Hyannis, Mass., 1976) ★6594
Journées algorithmiques (École Norm. Sup., Paris, 1975) ★12421
Journées Arithmétiques Françaises (Univ. Provence, Marseille, 1971) 2613, 12678
Journées de Contrôle (Univ. Bordeaux, Bordeaux, 1973), II 13251
Journées d'études sur la théorie de la propagation acoustique ★11961
Journées sur la Géometrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) ★3734, 11387, 12964, 13989
Der kanonische Modul eines Cohen-Macaulay-Rings ★304
Knots, groups, and 3-manifolds (Papers dedicated to the memory of R. H. Fox) 5352, 6169
Kombinatorik ★106
KWIC index for numerical algebra ★14303
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) 1730, 2240, 4194, 4707, 6567, 9178, 11858, 11867, 12607, 14443, 14452
Languages ★9164,★12941
Large-scale networks 9742
Large scale networks and systems ★12402
Lattice Theory Conference (Ulm, 1975) ★7327
Lattices ★2552,★5058
Latvian mathematical yearbook, 17 ★2376, 13160, 13315, 13421, 14316, 14317
Lectures on the applications of sheaves to ring theory 10099
Lectures on the theory of ordered sets and general algebra (Abstracts, Summer Session, Harmonia, 1970) 6575
Lie groups ★12419
Lie groups and their representations (Proc. Summer School of the Bolyai János Math. Soc., Budapest, 1971) 10486, 10489, 12977
Liège Colloquium on Ocean Hydrodynamics, Seventh (Liège, 1975) ★14563
Limit theorems of probability theory (Colloq., Keszthely, 1974) 14055
Linear algebra ★6471
Linear and nonlinear boundary value problems 10897, 13304, 13318
Linear operators and approximation 919, 13395
Linear operators and approximation, II 814, 3245, 5688
Linear programming ★14770
Lithuanian Mathematical Society 2374
Logic ★4909,★7191
Logic, mathematical ★44
Logic Colloquium '73 (Bristol, 1973) 1698, 4171, 12528
Logical and logico-mathematical calculi, 2 12495
Logical and philosophical foundations of probability ★7163
Logique ★3
Long-time predictions in dynamics (Proc. NATO Advanced Study Inst., Cortina d'Ampezzo, 1975) ★7157
Filip Lundberg Symposium on Risk Theory (Stockholm, 1968) 4155
Machine learning ★6535
Management sciences ★2161,★2162

Manifolds—Tokyo 1973 6149, 11420
Mathematical analysis, 1968 3425
Mathematical analysis, No. 2 544, 1653, 2958, 2959, 3317, 3340
Mathematical analysis, Vol. 12 3209
Mathematical analysis, Vol. 12, Part 1 ★13
Mathematical analysis, Vol. 12, Part 2 ★964
Mathematical aspects of chemical and biochemical problems and quantum chemistry (Proc. Sympos. Appl. Math. AMS-SIAM, New York, 1974) ★6701
Mathematical aspects of statistical mechanics (Proc. Sympos. Appl. Math., New York, 1971) 5842, 9526, 9545
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) ★7158, 12638, 12780, 13693, 13948
Mathematical economics and functional analysis ★6891
Mathematical foundations of computer science (Proc. Sympos. and Summer School. Štrbské Pleso, 1973) 441, 4940, 9892
Mathematical foundations of computer science 1975 (Fourth Sympos., Marianské Lázné, 1975) 71, 413, 1733, 6569, 9179, 11846, 12499, 14451
Mathematical foundations of the finite element method with applications to partial differential equations 1660, 1666, 1668, 4140, 4141, 4146, 9111, 9113, 11813, 14399
Mathematical geodesy, Part I 2135
Mathematical geodesy, Part II 2136, 600a-b
Mathematical logic ★7249, ★7251, ★9966
Mathematical logic, theory of algorithms and theory of sets 10424, 12498
Mathematical methods, and physical and mechanical fields, No. 1 335, 336, 972, 1099, 1236, 1757, 1781, 8357, 13233
Mathematical methods, and physical and mechanical fields, No. 2 747, 1797, 12806, 13416
Mathematical methods for the study and optimization of systems (Proc. Sem., Kiev-Lvov, 1970/1971) 130, 163
Mathematical models of behavior, No. 1 ★4685
Mathematical models of biological systems ★6981
Mathematical physics ★9903, ★10810
Mathematical physics and functional analysis, No. V 579, 1801, 1885, 3034, 3076, 6186, 8791, 8794, 10893
Mathematical programming ★12198
Mathematical programming and its applications 4665
Mathematical programming: a collection of articles 14370
Mathematical programs for activity analysis (Rep. Belgo-Israeli Colloq. Operations Res., Pope Hadrian VI College, Univ. Louvain, Louvain, 1972) 12168, 12184
Mathematical questions, No. 3 426, 928, 1642, 3400, 8000, 10832, 13030, 13031
Mathematical questions in the theory of wave propagation, 7 4342, 4343, 4347, 5613, 5906
Mathematical simulation and the theory of electrical circuits, No. 12 12400
Mathematical statistics ★6217
Mathematical Summer School, Seventh (Kaciveli, 1969) 8740, 8742, 8745
Mathematical theory of electromagnetism 2379
Mathematics:
Periodical collection of translations of foreign articles, Vol. 16, no. 3 ★14
Periodical collection of translations of foreign articles, Vol. 16, no. 4 ★15
Periodical collection of translations of foreign articles, Vol. 16, no. 5 ★16
Periodical collection of translations of foreign articles, Vol. 17, no. 1 ★17
Periodical collection of translations of foreign articles, Vol. 17, no. 2 ★18
Periodical collection of translations of foreign articles, Vol. 17 (1973), no. 4 ★9915
Periodical collection of translations of foreign articles, Vol. 18 (1974), no. 1 ★19
Mathematics: *(Continued)*
Periodical collection of translations of foreign articles, Vol. 18 (1974), no. 2 ★20
Mathematics and mathematical education (Proc. Conf., Vidin, 1973) 8787
Mathematics and theoretical mechanics, VI 1106, 1626, 1679, 5079, 8107, 9057
Mathematics and theoretical mechanics, VIII 1554
Mathematische Physik ★12427, ★12429
Mechanics ★12419
Mechanics of deformable bodies ★1029
Mechanics of a deformable solid ★9235, ★12425
Mechanics in the USSR in the past 50 years in four volumes, Vol. 2 ★9288
Mechanics in the USSR in the past 50 years in four volumes, Vol. 3 ★9235
Meetings of the I. G. Petrovskiĭ Seminar on the Differential Equations and Mathematical Problems of Physics (Moscow State Univ., September-December, 1975) 689
Method of integral manifolds in nonlinear differential equations 7798
Methoden und Verfahren der mathematischen Physik, Band 4 11913
Methoden und Verfahren der mathematischen Physik, Band 7 6493
Methoden und Verfahren der mathematischen Physik, Band 16 2003, 2072, 8057
Les méthodes mathématiques de la théorie quantique des champs (Colloq. Internat. Centre Nat. Recherche Sci., No. 248, Marseille, 1975) ★12000
Methods of local and global differential geometry in general relativity (Proc. Regional Conf. on Relativity, Univ. Pittsburgh, Pittsburgh, Pa., 1970) 8537, 9559, 9578, 9584, 9592, 9598, 12146, 14737
Methods and means of signal transformation ★14866
Methods of operations research, Vol. XVIII ★6892
Methods of operations research, Vol. XIX ★6893
Methods of operations research, Vol. XX ★6894
Methods in operations research, Vol. XXI ★4604
Methods of operations research, Vol. XXII ★6895
Methods for the quantitative and qualitative study of differential and integral equations 1663, 3105, 3327, 5625, 5626, 5654, 9120
Methods for the solution of boundary value and inverse problems of heat conduction 14405, 14580, 14857
Metric questions of the theory of functions and mappings, No. V 539, 547, 5471
Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) ★12403
Mini-Conference on Semigroup Theory (József Attila Univ., Szeged, 1972) 199, 2853
Mixed boundary value problems and questions of mathematical simulation 1897, 4366, 6933, 6934
Model theory and algebra 425, 2450
Modèles, mesures; simulation de systèmes informatiques ★4159
Modeling identification ★14026
Modern algebra, No. 1 432
Modern algebra, No. 3 ★12931
Modules in representation theory and algebraic geometry ★10339
Moscow Mathematical Society ★7161
Multiphase media ★1770, ★1772
Multivariable control systems ★9605
Multivariable systems ★2375
NATO Advanced Study Institute (Cortina d'Ampezzo, 1975) ★7157
Networks and systems ★12402
Neural systems ★4731
New elements of systems of automation, remote control and computer technology, No. 2 ★7092, 12343, 12346, 12362
New Zealand Mathematics Colloquium, Ninth (Auckland, 1974) 2377
New Zealand Mathematics Colloquium, Tenth (Otaga Univ., Dunedin, 1975), Abstracts of papers 7153
Nichtnormierbare topologische Algebren ★3425
Nomographic collection, No. 10 ★14414
Non-commutative harmonic analysis (Actes Colloq., Marseille-Luminy 1974) 13152
Noncommutative ring theory (Internat. Conf., Kent State Univ., Kent, Ohio, 1975) ★10306
Nondifferentiable optimization ★14771
Non-Euclidean geometry ★13734
Nonlinear analysis ★1029
Non-linear mechanics (C.I.M.E., 1972) 10761, 13688
Nonlinear programming, 2 2191, 9674
Nonlinear programming (Proc. Sympos., New York, 1975) 11758, 14371
Nonparametric statistics ★14217
Nonstationary processes ★1831
Notas de Lógica Matemática, Nos. 1-2-3 ★7251
Notas de Lógica Matemática, Nos. 29-30 ★7249
Notes and comments from Math. Mag. 12422
Notes in mathematical logic, Nos. 1-2-3 ★7251
Notes in mathematical logic, Nos. 29-30 ★7249
Number theory 10148
Number Theory Institute, 1969 (Proc. Sympos. Pure Math., Vol. XX, State Univ. New York, Stony Brook, N. Y., 1969) 256
Numerical analysis and computers ★7159, ★9916
Numerical analysis, and statistical models of complex systems, Part II ★2378
Numerical mathematics and computer technology, No. V ★21
Numerical methods of linear algebra 4114, 4498, 4629, ★6471, 11746, 14338
Numerical methods in problems of technology and economics ★11725
Numerical solution of systems of nonlinear algebraic equations 6958
Numerical solutions of boundary value problems for ordinary differential equations (Proc. Sympos., Univ. Maryland, Baltimore, Md., 1974) 4120, 9096
Numerische Behandlung von Differentialgleichungen (Tagung, Math. Forschungsinst., Oberwolfach, 1974) 1649, 4152
Numerische Behandlung von Eigenwertaufgaben (Oberwolfach, 1972) 1675, 4077
Numerische Behandlung nichtlinearer Integrodifferential- und Differentialgleichungen (Tagung, Oberwolfach, 1973) 4144
Numerische Behandlung von Variations- und Steuerungsproblemen 8406, 13664
Numerische Methoden der Approximationstheorie, Band 2 9103, 13698
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 820, 1052, 1543, 1609, 1615, 1625, 13684, 14323
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) ★106, 5005, 6475, 10077, 12201
Numerische Methoden bei Optimierungsaufgaben (Oberwolfach, 1971) 6953
Oberwolfach-Tagung über Operations Research, Sechste (1973), Teil I ★6892
Oberwolfach-Tagung über Operations Research, Sechste (1973), Teil II ★6893
Oberwolfach-Tagung über Operations Research, Siebente (1974) ★4604, 9626, 11687, 14785, 14801
Obituary:
Berenblut, I. I. 9943
Bompiani, Enrico 2395
Bos, Werner 7176
van der Corput, Johannes G. 12448, 12449
D'Addario, Raffaele 9937
Denjoy, Arnaud ★2409
Diviš, Bohuslav 12462
Dufrenoy, Jean 9952
Finzi, Bruno 12452
Fomin, S. V. 29
Fulkerson, D. R. 9947
Gonseth, Ferdinand 37
Hájek, J. 2399
Hotelling, Harold 9939
Jeffery, Ralph L. 2391
Kalmár, László 9955, 9956
Kargapolov, M. I. 9957
Klapka, Jiří 36
Koutský, Zdeněk 9940

Obituary: *(Continued)*
Künneth, Hermann 7177
Linnik, Ju. V. 9935
Mahalanobis, Prasanta Chandra 9949
Marczewski, Edward 9958
Musheliśvili, Nikolaĭ Ivanovič 9954
Natucci, Alpinolo 2389
Petrovskiĭ, I. G. 9959
Robinson, Abraham 12454
Rosenfeld, Léon 9930, 9931
Thomas, Ivo 12446
Uggè, Albino 9933
Urabe, Minoru 41, 12461
Vallander, S. V. 4897
Vlasov, A. 12444
Williams, W. L. G. 2392
Zawadzki, Adam 2390
Ždanov, G. M. 42
Ocean hydrodynamics ★14563
Odd-mass nuclei ★14583
Operational research 12162
Operational research '75 (Proc. Seventh IFORS Internat. Conf., Tokyo/Kyoto, 1975) 11571
Operations research ★2138
Operations research and statistical simulation, No. 2 14270
Operations Research Verfahren, Band XVIII ★6892
Operations Research Verfahren, Band XIX ★6893
Operations Research Verfahren, Band XX ★6894
Operations Research Verfahren, Band XXI ★4604
Operations Research Verfahren, Band XXII ★6895
Optimization ★9828, ★14026, ★14771
Optimization (Proc. Sem., Austral. Nat. Univ., Canberra, 1971) 9043, 11775
Optimization in action (Proc. Conf., Univ. Bristol, Bristol, 1975) ★9653
Optimization methods for multivariable control systems ★9605
Ordered sets and lattices, No. 1 7623
Ordered sets and lattices, No. 2 ★5058
Ordered sets and lattices, No. 3 ★2552
Ordinary differential equations: 1971 NRL-MRC Conference 3087, 3121, 3128, 4228, 4717, 5538, 5541, 5554, 5669, 5773, 7919, 7920, 7925, 7960, 7966, 7976, 8411, 8595, 8729, 9204, 9745, 10719, 10736, 10769, 10807, 11397, 13266, 13513, 13668
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 5561, 7936, 7962, 7972, 7977, 7994, 8003, 8054, 10724, 10727, 10728, 10730, 10732, 10741, 10743, 10775, 10845, 10849, 10853, 10898, 11089, 13182, 13192-13194, 13197, 13214, 13267, 13282, 13295, 13298, 13512, 14502, 14548
Nicole Oresme and the kinematics of circular motion ★12437
Organization and management ★4732
Oscillations ★9917
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 817, 2946, 8541, 8582
Papers presented at the Colloquium on Mathematical Economics (Univ. California, Berkeley, Calif., 1974) 2145, 2147, 14750
Papers arising from a Conference on Stochastic Differential Equations (Univ. Alberta, 1972) 6292
Papers presented at the Logic Conference (Opole, 1973) 2420, 4923, 7313
Papers on system performance evaluation 8932
Partial differential equations (Proc. Sympos. Pure Math., Vol. XXIII) 4309, 14007
Partial differential equations and related topics (Program, Tulane Univ., New Orelans, La., 1974) 11113
Particles, quantum fields and statistical mechanics (Proc. Summer Inst. Theoret Phys., Centro Investigacion Estudios Avanzados IPN, Mexico City, 1973) ★6785
Pattern recognition and artificial intelligence (Proc. Joint Workshop, Hyannis, Mass., 1976) ★6594
Pattern recognition and machine learning (Proc. Japan-U.S. Sem. Learning Process in Control Systems, Nagoya, 1970) ★6535
Permutations (Actes Colloq., Paris, 1972) 4996
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) 1490, 2246, 8878, 8904
Philosophy of logic (Proc. Third Bristol Conf. on Critical Philosophy, Univ. Bristol, Bristol) 4913, 7193
Physics, mathematical ★12420, ★12427-★12429
Physics, theoretical ★6785
Physique mathématique ★12420
Pivoting and extensions ★14769
Plates and shells ★1769
Polycyclic groups ★12901
Population genetics and ecology (Proc. Conf., Israel, 1975) ★2238, 9716
Prague studies in mathematical linguistics, No. 1 ★11869
Prague studies in mathematical linguistics, No. 2 ★11870
Prague studies in mathematical linguistics, No. 3 ★11871
Prague studies in mathematical linguistics, No. 4 ★11872
Probabilistic methods in differential equations (Proc. Conf., Univ. Victoria, Victoria, B. C., 1974) 3845, 8895
Les probabilités sur les structures algébriques 3831, 8775, 8780, 8812, 8818, 8860, 9494
Probability ★7163, ★8768
Probability and information theory, II 9495
Probability theory ★11424
Probability theory. Mathematical statistics. Theoretical cybernetics, Vol. 13 ★6217
Probability—winter school (Proc. Fourth Winter School, Karpacz, 1975) 14165
Problems:
Analysis (in honor of Salomon Bochner, 1969) 2331
Constructive trend in mathematics, 6 ★7190
Mathematical analysis, No. 4 ★22
Mathematical analysis, No. 5 722, 1851, 3117, 4143, 14551
Mathematical logic ★44
Mathematical physics, No. 7 ★12423
Mathematical physics, No. 8 ★12424
Mechanics of a solid deformable body ★12425
Theory of probability distributions, III 1362, 1452, 1472, 3963
Proceeding of the Symposium on Statistics and Related Topics (Carleton Univ., Ottawa, Ont., 1974) 1433
Proceedings of the All-Union Conference on Automatic Control—Engineering Cybernetics, Fourth (Tbilisi, 1968), Vol. 2 11688
Proceedings of the All-Union Conference on Software for Analog-Digital Complexes, Third (Sverdlovsk, 1973) ★1692
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Proceedings of the Annual Conference of Spanish Mathematicians, Eleventh (Murcia, 1970) 5401
Proceedings of the Annual Meeting of the American Statistical Association, Social Statistics Section (St. Louis, Mo., 1974) 1430
Proceedings of the Army Numerical Analysis and Computers Conference, 1975 (St. Louis, Mo., 1975) ★7159
Proceedings of the Army Numerical Analysis and Computers Conference, 1976 (Research Triangle Park, N. C., 1976) ★9916
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 1524, 3896, 3899, 4016, 9001, 14179, 14192
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 1478, 3808, 3827a, 9988, 11474
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. III 1371, 1418, 1422, 3884, 8855
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 1449, 1457, 3781, 4017, 6417, 14197
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 134, 2518, 2550, 5018, 5023
Proceedings of the Central Regional Association of Mathematics Departments, No. 2 13086, 13087
Proceedings of a Colloquium on Logic and Ontology (Salzburg, 1973) 7192, 9967
Proceedings of the Conference on Algebraic Aspects of Combinatorics (Univ. Toronto, Toronto, Ont., 1975) 2503
Proceedings of the Conference on Analytic Functions, Sixth (Krakow, 1974) ★7760
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 1614, 2695, 4331, 6653, 14359
Proceedings of the Conference on Compact Transformation Groups, Second, Part I 6175
Proceedings of the Conference on the Constructive Theory of Functions (Approximation Theory) (Budapest, 1969) 3059, 3251, 3254, 8084
Proceedings of the Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) ★6055, 13825, 13826
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 384, 394, 420, 2828, 5339, 7608, 10399
Proceedings of Conference on Foundational Questions in Statistical Inference (Aarhus, 1973) 1447, 6338
Proceedings of the Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975), Part I ★14484
Proceedings of the Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975), Part II ★14485
Proceedings of the Conference on Probability Theory, Fourth (Braşov, 1971) 1342
Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) ★9124
Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974), Suppl. ★11879
Proceedings of the Hawaii International Conference on System Sciences, Eighth (Univ. Hawaii, Honolulu, Hawaii, 1975) 12366
Proceedings of the Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) ★9125
Proceedings of the IFAC World Congress, Fifth (Paris, 1972), Part 3 6906, 7054
Proceedings of the IFAC World Congress, Fifth (Paris, 1972), Part 4 2231
Proceedings on Infinite Dimensional Holomorphy 3024, 7846, 8285, 8287, 11057
Proceedings of the International Conference on Nonlinear Oscillations, Fifth (Kiev, 1969), Vol. 1 5582
Proceedings of the International Conference on Physical Aspects of Noise in Solid State Devices, Fourth (Noordwijkerhout, 1975) 2066, 4358
Proceedings of the International Conference on Projective Planes (1973) 5967
Proceedings of the International Conference on Representations of Algebras (Carleton Univ., Ottawa, Ont., 1974) 7550, 12834
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 ★7, 2385, 2393, 7270, 7399, 7646, 8646, 8758, 10008, 10279, 10285, 10287, 10312, 10382, 11173 12507, 12660, 12665, 12735, 12763, 13695, 13915, 13947

Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 ★8, 3847, 3887, 6061, 6375, 7756, 7829, 8359, 8367, 8548, 8788, 8945, 9336, 9400, 9683, 9699, 9818, 9989, 10022, 10183, 10562, 10985, 11029, 11146, 11343, 11389, 11417, 11577, 11816, 11993, 12054, 12973, 12985, 12987, 13116, 13413, 13580, 13829, 14004, 14005, 14119, 14337, 14442
Proceedings of the International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973), Vol. I ★2161
Proceedings of the International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973), Vol. II ★2162
Proceedings of the Israel Annual Conference on Aviation and Astronautics, Eighteenth (Tel Aviv/Haifa, 1976) ★11962
Proceedings of the Lattice Theory Conference (Ulm, 1975) ★7327, 12590
Proceedings of Liverpool Singularities Symposium, II (1969/1970) 5505, 6166a-c
Proceedings Louisiana Conference on Combinatorics, Graph Theory and Computing (1971), Second 10053
Proceedings of the Manitoba Conference on Numerical Mathematics, 1971 5004, 6464, 14378
Proceedings of the Manitoba Conference on Numerical Mathematics, Second (Univ. Manitoba, Winnipeg, Man., 1972) 14314
Proceedings of the Manitoba Conference on Numerical Mathematics, Third (Winnipeg, Man., 1973) 9666
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 2207, 2345, 2496, 2497, 2501, 5106, 6450, 7286, 9345, 10138
Proceedings of the Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) ★12403, 12311, 12347
Proceedings of the Number Theory Conference (Univ. Colorado, Boulder, Colo., 1972) 277, 5148, 5241
Proceedings of the Prague Symposium on Asymptotic Statistics (Charles Univ., Prague, 1973), Vol. I 8942
Proceedings of the Bertrand Russell Memorial Logic Conference (Uldum, Denmark, 1971) 4967
Proceedings of the Scandinavian Logic Symposium, Second (Oslo, 1970) 12493
Proceedings of the Scandinavian Logic Symposium, Third (Univ. Uppsala, Uppsala, 1973) 12477
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part I 494, 1375, 3851
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part II ★3780, 14100, 14126
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 737, 740, 1798, 3082, 3336, 3451, 3452, 5474, 10785, 10786, 13320, 13321
Proceedings of the Scientific Research Seminar on Geometry and Nomography, Vol. I 8475
Proceedings of the Seminar of the Department of Geometry, No. VII 8489, 10223, 11180
Proceedings of the Session of the International Statistical Institute, 39th (Vienna, 1973), Vol. 2 3970
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) ★23, 45, 2455, 4963, 5070, 5326, 5551, 7510, 8244, 10642, 12583
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Third (1972) 5031
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Fourth (1973) 7296, 9145
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory and Computing, Fifth (Florida Atlantic Univ., Boca Raton, Fla., 1974) 2477, 5008
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2494, 2502, 2513, 2515, 2519, 2766, 4992, 10054, 11833, 12576
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Lousiana State Univ., Baton Rouge, La., 1976) ★2471, 10023, 12544, 12545, 14471
Proceedings of a Symposium in Applied Mathematics of AMS-SIAM (New York, 1974) ★6701
Proceedings of the Symposium on Basic Theory of Programs, Third (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) and of the Workshop for Proof Theory about Algorithms (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) ★4160
Proceedings of the Symposium on Complex Analysis (Canterbury, 1973) 526, 537, 5479, 7786
Proceedings of the Symposium on Continuum Mechanics and Related Problems of Analysis (Tbilisi, 1971), Vol. 1 718, 719, 6249, 13496
Proceedings of the Symposium on Exact Philosophy, First (McGill Univ., Montreal, Que., 1971) 12487a-b, 14027
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8205, 8210, 8231, 8247, 8318, 11071, 13583
Proceedings of a Symposium on Inverse Semigroups and their Generalisations (Northern Illinois Univ., DeKalb, Ill., 1973) 2848
Proceedings of the University of Houston Point Set Topology Conference (Houston, Tex., 1971) 6087
Proceedings of the University of Oklahoma Topology Conference (1972) 13864
Proceedings of the Winter School on Mathematical Programming, First (Drogobych, 1968), No. 2 ★14772
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Programmazione matematica ★12198
Programming ★1691, ★9164, ★14772
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Programs ★4160, ★6534
Progress in cybernetics and systems research (Second European meeting, Vienna, 1974), Vol. I ★4731
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Progress in operations research, Vols. I, II ★2138
Progress in statistics (European Meeting of Statisticians, Budapest, 1972) 8837, 14226
Proof theory about algorithms (Proc. Workshop, Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) ★4160
Propagation acoustique ★11961
Psychology of computer vision 4211
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 110, Quaderno No. 1 3200
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 130, Quaderno No. 4 7771, 9217
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 135, Quaderno No. 5 3201
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Department of Mathematics (Inst. Math., Phys. and Mech., Univ. Ljubljana, Ljubljana), VII (1972-1973) ★7149
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Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1968-1969, Fasc. 2 8706
Quadratic forms ★12641
Quantitative economics ★6896
Quantum chemistry ★6701
Quantum field theory ★9902, ★12000
Quantum fields ★6785
Quasiconformal transformations 2379
Quasigroups ★3197
Quelques problèmes de modules (Séminaire, 1971-1972) 3019, 3023
Questions of computational mathematics (A collection dedicated to the memory of Mel′bar Barnabovič Gagua) 1619, 12358
Questions of differential and non-Euclidean geometry ★13734
Questions on engineering cybernetics ★4886, 14797
Question on mathematical analysis 10216, 10217
Questions of mathematical cybernetics and applied mathematics, No. 1 ★4887, 11800, 11956
Questions of mathematics, algebra and geometry (Abstracts of Papers of a Conference, Novosibirsk. Ped. Inst., Novosibirsk, 1973) ★24
Questions on numerical mathematics and computer science (Proc. Res. Sem., Inst. Low Temp. Phys. Engrg., Kharkov, 1975) 1293, 1905
Questions on numerical mathematics and programming 632, 1544, 4567, 11425
Questions of statistics and of the control of random processes 13023, 14071, 14078, 14080, 14272, 14803
Questions in the theory of groups and semigroups 12911
Radiation gas dynamics, No. 2 ★4493, 14698
Random processes ★3780
Random processes and statistical inference, No. 3 1349
Random processes and statistical inference, No. 4 8972
Random processes and statistical inference, No. 5 1467, 6239, 6995, 6996, 6999
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) 115, 156, 2528, 2752, 5045, 10025
Recent advances in topological dynamics (Proc. Conf. Topological Dynamics, Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund) 7755, 11398
Recent trends in system theory 2264, 2362, 4733, 4749, 4751, 4764, 4771, 4773, 4825, 12393
Relativity ★2380
Reliability and fault tree analysis (Conf., Univ. California, Berkeley, Calif., 1974) ★11709
Remote control ★7092
Remote sensing ★11590
Repartition modulo 1 (Actes Colloq., Marseille-Luminy, 1974) 265, 10176
Report of Algebra Group (Queen's Univ., Kingston, Ont., 1973/1974) 12547, 12549
Reports of the Seminar on Formal Methodology of Empirical Sciences (March 1973-October 1973) 54
Representation theory ★10339
Representations of algebras (Proc. Internat. Conf., Carleton Univ., Ottawa, Ont., 1974) 337
Riddle of gravitation—on the occasion of the 60th birthday of Peter G. Bergmann 14651, 14734
Ring theory ★10306
Rings, modules and radicals (Colloq., Keszthely, 1971) 2690
Scientific computing ★4158
Scientific conference ★12413
Scientific Conference, Fourth, College of Transport Engineering, Žilina, Section 1 2935, 13173
Scientists at work (Festschrift in honour of Herman Wold on the occasion of his 60th birthday) 7151
Selected papers of Alfréd Rényi, Vol. I: 1948-1956. ★9960
Selected papers of Alfréd Rényi, Vol. II: 1956-1961. ★9961
Selected papers of Alfréd Rényi, Vol. III: 1962-1970. ★9962
Selected problems of mathematics and physics 2984, 2985, 5757, 5991, 8699
Selected tables in mathematical statistics, Vol. IV ★11721

Semigroups ★12941
Séminaire d'Algèbre Non Commutative (année 1973/74), Première partie 7552
Séminaire d'Algèbre Non Commutative (année 1974), Deuxième partie 349, 5286
Séminaire d'Algèbre Non Commutative (année 1974/1975) 12581
Séminaire d'Analyse Harmonique (année 1968/1969) 853a-b, 861, 5734
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 2601, 2890, 3720, 3722, 5245, 6751a, 7392, 7507, 8666, 10203, 10491
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 1263, 2597, 5233, 5234, 6024, 7822, 8518, 8667, 10656, 10660, 12656, 12784, 12990
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-436) 2827, 3370, 5437, 6156, 6751b, 7475, 7564, 8702, 8736, 10387, 10635, 13945
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 10385, 12857, 12986, 13124, 13928, 14015
Séminaire Delange-Pisot-Poitou (12e année: 1970/71) 7525
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 268, 7369, 7523
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 2 280, 2604
Séminaire Delange-Pisot-Poitou (14e année: 1972/73), Fasc. 2 5149
Séminaire Delange-Pisot-Poitou (15e année: 1973/74), Fasc. 1 266, 12653
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 5242, 10189, 12694
Séminaire P. Dubreil (25e année: 1971/72), Fasc. 1 10447
Séminaire P. Dubreil (25e année: 1971/72), Fasc. 2 435, 7667, 7671
Séminaire P. Dubreil (26e année: 1972/73) 232, 12750
Séminaire P. Dubreil (27e année: 1973/74), Fasc. 1 5397a-d
Séminaire P. Dubreil, F. Aribaud et M.-P. Malliavin (28e année: 1974/75) 10244, 10455
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71), Fasc. 1 214, 2705, 2842, 5073, 7348, 7356, 7665, 12935
Séminaire de Géométrie Analytique (École Norm. Sup., Paris, 1974-75) ★12778
Séminaire Goulaouic-Lions-Schwartz 1974-1975: Équations aux dérivées partielles linéaires et non linéaires 590
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 707, 3148, 3766, 8239, 8710
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionnelle. Deux journées p-radonifiantes 267, 741, 2910
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle 1320, 8042, 8748, 11475, 13613
Séminaire Goulaouic-Schwartz 1973-1974: Équations aux dérivées partielles et analyse fonctionnelle 13291, 13984
Séminaire P. Lefebvre (année 1968/1969) 436, 5292a-b
Séminaire P. Lefebvre (année 1969/1970) 2844, 7668, 7669, 7670
Séminaire P. Lefebvre (année 1970/1971), Tome I 5374, 5375
Séminaire P. Lefebvre (année 1970/1971), Tome II 2841a-c
Séminaire Pierre Lelong (Analyse), Année 1967-1968 10682, 13138
Séminaire Pierre Lelong (Analyse), Année 1969 7850
Séminaire Pierre Lelong (Analyse), Année 1971-1972 600
Séminaire Pierre Lelong (Analyse), Année 1972-1973 7840
Séminaire Pierre Lelong (Analyse), Année 1973-1974 8204, 8234, 8279
Séminaire Pierre Lelong (Analyse), Année 1974/75 5130, 5503, 5828, 5831, 5856, 10654, 12761, 13145, 13546
Séminaire Maurey-Schwartz Année 1972-1973: Espaces L^p et applications radonifiantes 952, 3367, 13024, 13025
Séminaire Maurey-Schwartz 1973-1974: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 8333, 11040, 13614
Séminaire Maurey-Schwartz 1974-1975: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 895, 910, 8851
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Séminaire de Probabilités, V 6276
Séminaire de Probabilités, VI 14036
Séminaire de Probabilités, VII 3860a-b, 14118
Séminaire de Probabilités, VIII 3861, 8890
Séminaire de Probabilités, IX 8889, 11444, 11491, 11492, 11530, 13037, 14084, 14117, 14122
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes 3438a-b, 5425a-c, 5886, 5887, 6296, 6299, 8334, 8335
Séminaire de Théorie des Nombres, 1970-1971 (Univ. Bordeaux I, Talence) 5112, 12692
Séminaire de Théorie des Nombres, 1971-1972 (Univ. Bordeaux I, Talence) 7432
Séminaire de Théorie des Nombres, 1972-1973 (Univ. Bordeaux I, Talence) 12642
Séminaire de Théorie des Nombres, 1973-1974 (Univ. Bordeaux I, Talence) 288, 2608, 7414
Séminaire de Théorie du Potentiel (14e année: 1970/71) 5799, 8892, 10633, 10639
Séminaire de Théorie du Potentiel (15e année: 1972) 2999, 5750, 7810, 8891, 10634, 10636
Seminar "Algebraic systems", No. 3 7622, 7625
Seminar-Conference on the Qualitative Theory of the Differential Equations that arise in Hydrodynamics (Akademgorodok, 1975) 1846
Seminar on Differential Equations and Dynamical Systems, II (Univ. Maryland, College Park, Md., 1969) 8731
Seminar on the Differential Equations and Mathematical Problems of Physics (Moscow State Univ., September-December, 1975) 689
Seminar on Formal Languages and Programming (Proc., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) ★1691
Seminar über die lokale Kohomologietheorie von Grothendieck, Univ. Regensburg, 1970/1971 ★304
Seminar Uniform Spaces (Prague, 1973-1974) 1173
Sensitivity, adaptivity and optimality (Third IFAC Sympos., Ischia, 1973) 2260
Series of articles on the theory of singularities of smooth mappings 1310
Set theory ★2412
Set theory and hierarchy theory (Proc. Second Conf., Bierutowice, 1975) 2398, ★2412, 12478
Sets ★5058
Sets and classes ★2458, 4903-4905, 4975, 12525
Short Seminar on Prehomogeneous Vector Spaces and their Applications, II 12661, 12662
Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) ★23
Simulation ★9828
Simulation de systèmes informatiques ★4159
Singular points of hypersurfaces ★578
Singularités à Cargèse (1972) 5227
Singularities of analytic spaces (Centro Internaz. Mat. Estivo, II Ciclo, Bressanone, 1974) 3012, 10653
Socio-economic systems ★4732
Software ★1692
Software of electronic digital computers 1623, 1685
Software of electronic digital computers (Proc. Second Math. School, Kaciveli, 1971) 4099
Some problems in nonlinear analysis and the mechanics of deformable bodies ★1029
Some questions in group theory ★10384
Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) ★2471
Soviet-Japanese Symposium in Probability Theory, Third (Tashkent, 1975) 1330
Soviet-Japanese Symposium on Probability Theory and Mathematical Statistics, Third (Tashkent, 1975) 12534
Special functions and wave propagation ★12426
Special issue on automated theorem proving ★4209
Special issue on fault-tolerant computing, 1975 ★1693
Special issue on fault-tolerant computing, 1976 2338, 2355, 4836, 9857, 9884
Special section on testing ★4163, 14427, 14428
Special Session on Convergence Structures (Amer. Math. Soc. Meeting, Univ. Nevada, Reno, Nev., 1976) ★6055
Spectral theory ★12423, ★12424
Spectral theory and asymptotics of differential equations 5532, 5533, 5643, 5880, 7938, 10725, 10726, 13202
Spectral theory and differential equations (Proc. Sympos., Dundee, 1974; dedicated to Konrad Jörgens) 5645
Spectrum of mathematics (Essays presented to H. G. Forder) ★7160, 9928, 9950, 9951, 11883, 13174, 13705, 13706, 13709, 14376
Spline functions and approximation theory 2971
Spline-Funktionen (Vorträge und Aufsätze, 1973) 801, 1533, 3220, 3230, 3234-3236, 4066, 5677, 6454, 8094, 9056, 10941, 13390
C. N. Srinivasiengar dedication volume 6021
Stability ★11424
Stability problems of solutions of differential equations (Proc. NATO Advanced Study Inst., Padua, 1965) 5949
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) 4227, 4275, 4796, 12275, 12327, 12328, 12330
Statistical decision theory and related topics, II (Proc. Sympos., Purdue Univ., Lafayette, Ind., 1976) ★11591
Statistical mechanics ★6785, ★9902
Statistical models ★2378
Statistical papers in honor of George W. Snedecor ★6337
Statistical theory of estimation, I 4000
Statistics, mathematical ★11424, ★11721
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 1107, 1142, 3576, 6009, 8716
Stiff differential systems (Internat. Sympos., Wildbad, Germany, 1973) 4115
Stochastic analysis 8881
Stochastic differential equations (Proc. Sympos., New York, 1972) 14805
Stochastic geometry 11443
Stochastic point processes: statistical analysis, theory, and applications 1411, 6313
Stochastic processes and related problems, Part 2 1455, 1521, 3869
Stochastic systems: modeling, identification and optimization, I (Proc. Sympos., Univ. Kentucky, Lexington, Ky., 1975) ★14026
Strömungsmechanik ★9289
Strong laws of invariance principle 3784, 3805, 3806
Structure and methodological recommendations for the creation of systems of automated design of discrete devices (Proc. Sem., Budapest, 1973) 9866
Students' works in algebra and geometry 5074
Studi in memoria di Ettore Pezzoli, II 14298
Studi in memoria di Ettore Pezzoli, III 3902
Studi di probabilità, statistica e ricerca operativa in onore di Giuseppe Pompilj 6331
Studia Leibnitiana Supplementa, Vol. IV ★7164
Studia Leibnitiana Supplementa, Vol. V ★7165
Studies in algebra, No. 2 433, 12606
Studies in algebra, No. 4 ★4888, 12603
Studies in applied mathematics, 6 ★12426
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) 8968, 8969, 12204, 14215
Studies in constructive mathematics and mathematical logic, VII ★9966

Studies in contemporary problems of summability and approximation of functions, and their applications 784, 810, 1101, 3190, 3212, 3248, 3314, 3608, 5524, 5690, 5692, 5696, 5699, 5716, 5770, 8071-8073, 8078, 8124, 8370, 10960, 10962, 10963, 11762
Studies in cosmic rays ★14584
Studies in discrete mathematics 148
Studies in formalized languages and nonclassical logics ★7191
Studies in group theory ★5322
Studies in mathematics (in honor of A. Almeida Costa) 210, 5288
Studies in number theory, No. 4 2607, 12922
Studies in optimization 4675, 6957
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 3937, 4722, 6287, 6408, 8825, 8978, 11652, 11686, 14257
Studies of special questions in the theory of differential equations 13200, 13355, 13506, 13635
Studies in the theory of differentiable functions of several variables and its applications, VI ★12994
Studies in the theory of plates and shells, No. XI ★1769
Studies in topology (Proc. Conf., Univ. North Carolina, Charlotte, N. C., 1974) 3692
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 5570, 7934, 7979, 7980, 8410, 8865, 9219, 9601, 10772, 10818, 11964, 13359
Survey of statistical design and linear models 1498, 9717
Switching and automata theory ★4884
Symbolic logic ★4909
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) 2879, 7699, 8169, 8170, 8172
Symposia of the Annual Meeting of the Western Division of the American Philosophical Association, 68th (St. Louis, Mo., 1970) 2430
Symposia read at the Joint Session of the Aristotelian Society and the Mind Association (Sympos., Univ. Kent, Canterbury, 1975) ★4910
Symposia Mathematica, Vol. XIV 6677, 8414, 8421, 11153
Symposia Mathematica, Vol. XV 290, 1700, 1704, 9182, 10462
Symposia Mathematica, Vol. XVI 3525, 3669, 10487
Symposia Mathematica, Vol. XVII 418, 424, 1153, 1168, 2809, 3645, 3657, 5858, 7629, 7645, 12905, 13841
Symposia Mathematica, Vol. XVIII 2379
Symposia Mathematica, Vol. XIX ★12198
Symposium on Advanced Problems and Methods in Fluid Mechanics, Ninth (Kazimierz, 1969) ★14543
Symposium on Complex Manifolds (Kyoto, 1974) 324, 602b, 605, 5244, 5512, 7377, 7462, 7472, 8662, 13121
Symposium on Computer Systems (Univ. Texas, Austin, Tex., 1972) ★9123
Symposium on harmonic analysis and topological algebras (Trinity College, Dublin, 1975) ★13461
Symposium on Infinite-Dimensional Topology (1967) 1282, 1290, 5809, 5812, 5813, 6179, 8591, 8641, 8698, 13965
Symposium on New Directions and Results in Algorithms and Complexity (Proc., Carnegie-Mellon Univ., Pittsburgh, Pa., 1976) ★14417
Symposium on Ordinary Differential Equations (Univ. Minnesota, Minneapolis, Minn., 1975; dedicated to Hugh L. Turrittin) 874, 14375
Symposium in Pure Mathematics (Northern Illinois Univ., De Kalb, Ill., 1974) ★7158
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) ★3197, 8064, 9848, 10445
Symposium on Relativity and Gravitation (Brno, 1975) ★2380
Symposium on Special Functions (SIAM National Meeting, Washington, D. C., 1969) ★12426
Symposium on statistical decision theory and related topics. II (Purdue Univ., Lafayette, Ind., 1976) ★11591
Symposium on Switching and Automata Theory, 14th Annual IEEE (Univ. Iowa, Iowa City, Iowa, 1973) ★4884
Symposium on the Theory of Computing, Third Annual ACM (Shaker Heights, Ohio, 1971) 11868, 14426
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) 4174, 4182, 4187, 6557, 6558, 9143, 9150, 9152, 9153, 11752, 11847, 14432
Symposium on Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 76, 1711, 1725, 4165, 4177, 4178, 4198, 4957, 6548, 6549, 6554, 7215, 9151, 9166, 11844, 11850
Symposium on Theory of Computing, Seventh Annual ACM (Albuquerque, N. M., 1975) ★4161
Symposium on Theory of Computing, Eighth Annual ACM (Hershey, Pa., 1976) ★4162
Symposium on Wave Propagation (SIAM National Meeting, Washington, D. C., 1969) ★12426
System identification and time-series analysis 9022, 9633, 11691, 14847
System reliability ★11709
System sciences ★9124, ★9125
Systèmes informatiques ★4159
Systems education ★4732
Systems research ★4731, ★4732
Systems theory ★12403
Table errata 3040-3047, 4033-4049, 4051-4054, 14309
Tables:
  Ambarcumjan functions ★14742
  Computation of the integrals of functions with power singularities ★6444
  Group properties 9396
  Incomplete beta function ★1532
  Integral transforms, Vol. I 4051
  Integrals, series, and products 4049
  Multivariate F distribution ★11653
  Normal distribution ★4055
  Squares, cubes, square roots, cube roots and reciprocals of all integers up to 1500 ★4032
  Statistics ★1482
  Statistics, mathematical ★11721
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Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 1 ★12427
Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 2 ★12428
Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 3 ★12429
Tagung Strömungsmechanik (Frankfurt (Oder), 1975) ★9289
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) 1589, 2149, 3533, 4780
Teoria matematica dell'elettromagnetismo 2379
Terminology of information science ★9914
Testing ★4163
Texas Symposium on Computer Systems, First (Univ. Texas, Austin, Tex., 1972) ★9123
Texas Conference on Computing Systems, Second (Univ. Texas, Austin, Tex., 1973) ★14418
Texas Conference on Computing Systems, Third (Univ. Texas, Austin, Tex., 1974) ★14419
Texas Conference on Computing Systems, Fourth (Univ. Texas, Austin, Tex., 1975) ★14420
Texas Conference on Computing Systems, Fifth (Univ. Texas, Austin, Tex., 1976) ★14421
Theorem proving ★4209
Theoretical and applied mechanics (Thirteenth Internat. Congr., 1972) 6628
Théorie de la propagation acoustique ★11961
Théorie quantique des champs * 12000
Théories de l'information 12365
Theory of acoustic propagation ★11961
Theory of algorithms, and mathematical logic (dedicated to A. A. Markov on the occasion of his 70th birthday) 66
Theory and application of special functions (Proc. Advanced Sem., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975) 619
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 794, 796, 798, 803, 804, 815, 816, 1573, 3231, 3260, 4061, 4071, 5678, 5705, 8120, 10611, 10936, 10943, 13392
Theory of computing ★4161
Theory of finite automata and its applications, No. 3 12375, 12386, 12390, 12398, 12399, 12405, 12406, 12410
Theory of functions ★10810, ★12423
Theory of functions and its applications (collection of articles dedicated to S. M. Nikol'skiĭ on the occasion of his seventieth birthday) 2934
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) 2360, 2366, 4192, 4202, 9887, 9894, 12380
Theory of multiphase media, Part I ★1770
Theory of multiphase media, Part I: addenda et corrigenda 1771
Theory of multiphase media, Part II 1771, ★1772
Theory of nonlinear operators (Summer School, 1972) 5928
Theory of oscillations, applied mathematics and cybernetics, No. 1 ★9917
Theory of random processes, No. 4 4821, 8835, 8859, 9816, 9817, 11490, 11640, 14104
Three articles on pseudoanalytic functions and elliptic differential equations 5604, 10618, 10619
Three lectures on polycyclic groups ★12901
Time-valued Boolean functions and their applications 7132
Topics in analysis (Colloq. Math. Anal., Jyväskylä, 1970) 2898
Topics in differential games 2232, 14798
Topics in differential geometry (in memory of Evan Tom Davies) 1138, 1299, 6002, 8540
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 1646, 1658, 1664, 3225, 3682, 4132, 9089, 10956, 11733, 11793, 11819
Topics in operator theory 8336
Topics in probability theory (Sem., Courant Inst. Math. Sci., New York, 1971-1972) 1351, 3790
TOPO 72—general topology and its applications 3660, 6084
Topological algebra ★3425
Topological algebras ★13461
Topological aspects of graph theory 166, 10056, 13927
Topologie ★4
Topology ★9, ★4882, 4883, ★9913
Topology (Proc. Ninth Annual Spring Topology Conf., Memphis State Univ., Memphis, Tenn., 1975) ★9918, 13833
Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) 1165, 6145
Transactions of the Conference of Army Mathematicians, Seventeenth (1971) 7045
Transactions of the Moscow Mathematical Society ★7161
ϕ-transformations of graphs 124, 167, 2521, 10057-10059
Translations ★14-★18, 9915
Transport phenomena 2068, 4462
Trasformazioni quasiconformi 2379
Truth, syntax and modality 2416
Two Symposia on Probability and Applications 4002, 8862
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) 1164, 3650, 13871
Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 1971 7170

Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 154 (Neuenburg, 1974) 2812, 8277
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (München, 1973) 4697
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 665, 824, 906, 1620, 1650, 1806, 1808, 3112, 3224, 3531, 5684, 6460, 6520, 6662, 7796, 8491, 9369, 9667, 11781, 11782
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1569, 1579, 1683, 1780, 1819, 1855, 2214, 2215, 4056, 4080, 4149, 5571, 5572, 6478, 6479, 6636, 6645, 6659, 7173, 9041, 14240, 14408, 14507
Wave propagation ★12423,★12424,★12426
Whittmore Lectures in Mathematics, 1967 * 7387
Whittemore Lectures in Mathematics, 1974 ★1311
Winter Annual Meeting of the American Society of Mechanical Engineers (Houston, Tex., 1975) ★9283
Winter School on Mathematical Programming and Related Questions, First (Drogobych, 1968) ★14772
Word problems: decision problems and the Burnside problem in group theory 399, 412, 415, 2767
Working Conference on Multiphase Media (Jabłonna, 1974) ★1770,★1772
Working Papers presented at the ACM-SIGACT Symposium on the Theory of Computing (Albuquerque, N. M., 1975) ★11828

SUBJECT CLASSIFICATION

The following 33 pages are a reprinting of the AMS(MOS) 1970 classification scheme that first appeared as a supplement to the index issue of Volume 39 of Mathematical Reviews. Since the middle of 1973 the reviews in the monthly issues of Mathematical Reviews have been arranged in accordance with this scheme (although only the headings that appear in capital letters are printed in the issues), with two exceptions: (i) Sections 96 - 98 of the AMS(MOS) 1970 classification scheme are not being used at all; (ii) Sections 69 through 86 of the classification scheme that last appeared in full in the index issue of Volume 45 of Mathematical Reviews will continue to be used in Mathematical Reviews, instead of Sections 70 through 86 of the AMS(MOS) 1970 classification scheme. These sections are printed immediately after the full AMS(MOS) 1970 classification scheme, in the form in which they are currently being used.

Note that minor revisions are constantly being made in the AMS(MOS) 1970 classification scheme: some of them (and also some minor corrections) have been incorporated in the subject index immediately following the classification scheme.

00—XX GENERAL

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
A05 General mathematics
A10 Collections of papers: Proceedings of conferences of general interest, translation volumes, etc. [See also 01A75.]
A15 General bibliographies
A20 Dictionaries and other general reference works
A25 Methodology and philosophy of mathematics

01—XX HISTORY AND BIOGRAPHY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
A05 General histories, source books
A10 Primitive
A15 Pre-Greek, Babylonian, Egyptian
A20 Greek
A25 Far East
A30 Islam
A35 Medieval
A40 15th and 16th centuries, Renaissance
A45 17th century
A50 18th century
A55 19th century
A60 20th century
A65 Contemporary
A70 Biographies, obituaries, personalia
A75 Collected or selected works; reprintings or translations of classics

02—XX LOGIC AND FOUNDATIONS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
02A05 Philosophical and critical
02Bxx Classical logical systems
B05 Propositional calculus
B10 Predicate calculus
B15 Higher order predicate calculus
B20 Unusual quantifiers
B25 Infinitely long sentences
B99 None of the above, but in this section
02Cxx Nonclassical formal systems
C05 Many-valued logic
C10 Modal logic, etc.
C15 Formalizations of intuitionism, etc.
C20 Combinatory logic
C99 None of the above, but in this section
02Dxx Proof theory {For theorem proving by machines, see 68A40.}
D05 Proof theoretic ordinals
D99 Other proof theory
02Exx Constructive mathematics
E05 Intuitionistic mathematics
E10 Algorithms
E15 Computable functions
E99 None of the above, but in this section
02Fxx Recursion theory
F05 Thue and Post systems, etc.
F10 Automata [See also 18B20, 68A25, 94A30, 94A35.]
F15 Turing machines
F20 Classification of recursive functions
F25 Recursively enumerable sets
F27 Recursion theory on ordinals and sets and other abstract structures
F29 Recursion theory at higher types
F30 Degrees of unsolvability
F35 Hierarchies
F40 Recursive equivalence types
F43 Formal systems for computability
F45 Combinatorial functions
F47 Word problems
F50 Applications
F99 None of the above, but in this section
02Gxx Methodology of deductive systems
G05 Decidability and undecidability
G10 Axiomatizability
G15 Finite axiomatizability
G20 Completeness, categoricity, etc.
G99 None of the above, but in this section
02Hxx Model theory
H05 Models for theories in classical predicate calculus
H10 Models for other theories
H13 Model constructions
H15 Applications to algebra, number theory, etc. [See also 13L05.]
H20 Nonstandard models
H25 Applications of nonstandard models [See also 10N15, 12L15, 26A98, 30A91.]
H99 None of the above, but in this section
02Jxx Algebraic logic
J05 Boolean algebras, lattices, topologies
J10 Algebra of relations
J15 Cylindric and polyadic algebras
J99 None of the above, but in this section
02Kxx Set theory
K05 Consistency and independence results
K10 Nonclassical set theories
K15 Axiomatics
K20 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 04A25.]
K25 Continuum hypothesis, generalized continuum hypothesis [See also 04A30.]
K30 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 04A15, 28A05, 54H05.]
K35 Large cardinals and ordinals (inaccessible, etc.)
K99 None of the above, but in this section

04—XX SET THEORY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Relations, functions [See also 08A05.]
A10 Transfinite numbers
A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 02K30, 28A05, 54H05.]
A20 Combinatorial [See also 05A05.]
A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]
A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

05—XX COMBINATORICS {For finite fields, see 12Cxx.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
05Axx Classical combinatorial problems
A05 Combinatorial choice problems; subsets, representatives
A10 Factorials, binomial coefficients, combinatorial functions
A15 Combinatorial enumeration problems, generating functions
A17 Partitions [See also 10A45.]
A19 Combinatorial identities
A20 Combinatorial inequalities
A99 None of the above, but in this section
05Bxx Designs and configurations
B05 Block designs [See also 62Kxx.]
B10 Difference sets (number-theoretic, group-theoretic, etc.)
B15 Orthogonal arrays, Latin squares
B20 Matrices (incidence, Hadamard, etc.)
B25 Finite geometries
B30 Other designs, configurations
B35 Matroids, geometric lattices
B40 Packing and covering [See also 10E30, 52A45.]
B45 Tessellation and tiling problems
B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 94A20.}
C05 Trees
C10 Topological graph theory, embedding [See also 55A15, 55A25.]
C15 Chromatic theory of graphs and maps
C20 Directed graphs (digraphs)
C25 Graphs and groups
C30 Enumeration of graphs and maps
C35 Paths and extremal problems
C99 None of the above, but in this section

06—XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Total order
A10 Partial order
A15 Galois correspondence, closure operators
A20 Lattices, semi-lattices, generalizations
A23 Complete lattices
A25 Complemented lattices, generalizations
A30 Modular lattices, continuous geometries, generalizations [See also 16A30.]
A35 Distributive lattices, generalizations
A40 Boolean algebras and rings
A45 Order topologies [See also 54F05.]
A50 Ordered semigroups, other generalizations of groups
A55 Ordered groups
A60 Ordered abelian groups
A65 Ordered linear spaces [See also 46A40.]
A70 Ordered rings, algebras, modules [For ordered fields, see 10M15, 12J15.]
A75 Other ordered algebraic structures

08—XX GENERAL MATHEMATICAL SYSTEMS
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Structure of general algebras and relational systems [For topological representation, see 54H10.]
A10 Free algebras, sums, products, limits, colimits
A15 Varieties of algebras and generalizations
A20 Axiomatic model classes
A25 Universal algebra

10—XX NUMBER THEORY {Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

10Axx Elementary number theory {For analogues in number fields, see 12A05.}
- A05 Multiplicative structure of the integers (GCD, etc.)
- A10 Congruences, primitive roots
- A15 Power residues, reciprocity
- A20 Number theoretic functions, related numbers; inversion formulas
- A25 Elementary prime number theory, factorization
- A30 Algorithms and expansions, digital properties [Approximation results in 10F20; metric results in 10K10.]
- A35 Recurrence sequences
- A40 Special numbers, sequences and polynomials (e.g. Bernoulli)
- A45 Partitions
- A99 None of the above, but in this section

10Bxx Diophantine equations {For all papers involving algebro-geometric methods, see 14Gxx.}
- B05 Linear, quadratic and bilinear equations
- B10 Cubic and quartic equations
- B15 Higher degree equations
- B20 Multiplicative equations
- B25 Nonpolynomial equations
- B30 Equations in sufficiently many variables [See also 10J10.]
- B35 Representation problems [See also 10J10.]
- B40 p-adic and power series fields
- B45 Diophantine inequalities
- B99 None of the above, but in this section

10Cxx Forms
- C05 Quadratic and hermitian forms [See also 10E25.]
- C10 Higher degree forms
- C15 Analytic theory
- C20 p-adic theory
- C25 Minima of forms [See also 10E20.]
- C30 Arithmetic properties of classical groups [See also 20Gxx.]
- C99 None of the above, but in this section

10Dxx Automorphic theory
- D05 Modular functions and groups
- D10 Automorphic functions, one variable
- D15 Automorphic forms, one variable
- D20 Automorphic theory, several variables
- D25 Complex multiplication [See also 14K22.
- D99 None of the above, but in this section

10Exx Geometry of numbers
- E05 Lattices and convex bodies [See also 10J25.]
- E10 Nonconvex bodies
- E15 Products of linear forms
- E20 Minima of forms
- E25 Quadratic forms (reduction, extreme forms, etc.)
- E30 Lattice packing and covering [See also 05B40, 52A40.]
- E35 Mean value theorems
- E40 Transfer theorems
- E45 Automorphism groups of lattices
- E99 None of the above, but in this section

10Fxx Diophantine approximation {See also 10Kxx.}
- F05 Approximation to one number
- F10 Simultaneous approximation
- F15 Nonhomogeneous approximation
- F20 Continued fractions and generalizations [See also 10A30.]
- F25 Approximation to algebraic numbers
- F30 Approximation by numbers from a fixed field
- F35 Irrationality and transcendence
- F40 Distribution modulo one [See also 10K05.]
- F45 Approximation in nonarchimedean valuations
- F99 None of the above, but in this section

10G05 Exponential sums, character sums

10Hxx Multiplicative theory
- H05 Riemann zeta-function
- H10 Other zeta-functions, L-functions [For local and global ground fields, see 12A70, 12A80, 12B30, 12B35; for algebro-geometric methods, see 14G10.]
- H15 Distribution of primes and of integers with specified multiplicative properties
- H20 Distribution in progressions and other sequences
- H25 Asymptotic results on arithmetic functions
- H30 Sieves
- H35 Distribution of residue classes (primitive roots, power residues, etc.)
- H40 Generalized primes and integers
- H99 None of the above, but in this section

10Jxx Additive theory
- J05 Sums of squares
- J10 Applications of Hardy-Littlewood method [See also 10B35.]
- J15 Additive questions involving primes
- J20 Analytic work on partitions [See also 10A45.]
- J25 Lattice points in large regions
- J99 None of the above, but in this section

10Kxx Probabilistic theory; measure, dimension, etc.
- K05 Distribution modulo one
- K10 Algorithms and expansions
- K15 Diophantine approximation
- K20 Arithmetic functions
- K25 Normal numbers
- K30 Irregularities of distribution
- K35 Harmonic analysis and almost periodicity
- K40 Nonarchimedean theory
- K99 None of the above, but in this section

10Lxx Sequences of integers
- L05 Addition of sequences
- L10 Special sequences (density, etc.)
- L15 Representation functions
- L99 None of the above, but in this section

10Mxx Rational arithmetic of algebraic objects
- M05 Polynomials [See also 13F20.]
- M10 Valued fields
- M15 Ordered fields
- M20 Matrices [See also 15A36.]
- M99 None of the above, but in this section

10Nxx Connections with logic
- N05 Decidability
- N10 Ultraproducts
- N15 Nonstandard arithmetic [See also 02H25.]
- N99 None of the above, but in this section

12—XX ALGEBRAIC NUMBER THEORY, FIELD THEORY AND POLYNOMIALS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

12Axx Algebraic number theory: global fields
[For complex multiplication, see 10D25.]
A05 Analogues in number fields of elementary number theory
A10 Characterizations of algebraic numbers and algebraic functions
A15 Special algebraic numbers (PV numbers, etc.)
A20 Polynomials (irreducibility, etc.)
A25 Quadratic fields
A30 Cubic and quartic fields
A35 Abelian and metabelian extensions (including cyclotomic, Kummer, cyclic)
A40 Other number fields
A45 Units and factorization
A50 Class number, discriminant
A55 Galois theory
A60 Galois cohomology
A65 Class field theory
A70 Zeta-functions and L-functions of number fields [See also 10H10.]
A75 Density theorems
A80 Arithmetic and zeta-functions of algebras
A85 Analysis in adèle rings and groups
A90 Arithmetic theory of algebraic function fields [See also 14—XX.]
A95 Totally real and totally positive fields
A99 None of the above, but in this section

12Bxx Algebraic number theory: local and p-adic fields
B05 Polynomials
B10 Ramification and extension theory
B15 Galois theory
B20 Galois cohomology
B25 Class field theory
B30 Zeta- and L-functions [See also 10H10.]
B35 Arithmetic and zeta-functions of algebras
B40 Other analytic theory
B99 None of the above, but in this section

12Cxx Finite fields and finite commutative rings
C05 Polynomials
C10 Linear sequences
C15 Arithmetic
C20 Cyclotomy
C25 Exponential sums
C30 Structure theory
C99 None of the above, but in this section

12Dxx Real and complex fields
D05 Polynomials: factorization
D10 Polynomials: location of zeros [Algebraic theorems; for the analytic theory, see 26A78, 30A08.]
D15 Formally real fields
D99 None of the above, but in this section

12Exx General field theory
E05 Polynomials (irreducibility, etc.)
E10 Special polynomials
E99 None of the above, but in this section

12Fxx Field extensions
F05 Algebraic extensions
F10 Separable extensions, Galois theory
F15 Inseparable extensions, derivations
F20 Transcendental extensions
F99 None of the above, but in this section

12Gxx Homological methods
G05 Galois cohomology [See also 12A60, 18H10.]
G10 Cohomological dimension
G99 None of the above, but in this section

12Hxx Differential and difference algebra
H05 Differential algebra
H10 Difference algebra

12Jxx Topological fields
J05 Normed fields
J10 Valued fields
J15 Ordered fields
J20 General valuation theory
J99 None of the above, but in this section

12K05 Near-fields and other generalizations

12Lxx Connections with logic
L05 Decidability
L10 Ultraproducts
L15 Nonstandard arithmetic [See also 02H25.]
L99 None of the above, but in this section

13—XX COMMUTATIVE RINGS AND ALGEBRAS
[For finite commutative rings, see 12Cxx.]

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

13Axx General commutative ring theory
A05 Divisibility
A10 Radical theory
A15 Ideals, prime ideals, valuations and generalizations
A20 Brauer group [See also 16A16.]
A99 None of the above, but in this section

13Bxx Ring extensions and related topics
B05 Galois theory
B10 Automorphisms and derivations
B15 Ramification theory
B20 Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)
B25 Polynomials over commutative rings
B99 None of the above, but in this section

13Cxx Theory of modules and ideals
C05 Structure, classification theorems
C10 Special types (projective, injective, free, flat, torsion, reflexive, etc.) [See also 18G05.]
C15 Dimension theory, depth, related rings (catenary, etc.)
C99 None of the above, but in this section

13Dxx Homological methods {For cohomology of rings and algebras, see 18H20.}
- D05 Homological dimension
- D10 Deformations and infinitesimal methods
- D15 Class group, Grothendieck group, K-theory [See also 18F25.]
- D99 None of the above, but in this section

13Exx Chain conditions
- E05 Noetherian rings
- E10 Artin rings, finite dimensional algebras
- E99 None of the above, but in this section

13Fxx Arithmetic rings
- F05 Dedekind and Prüfer rings and their generalizations
- F10 Principal ideal rings
- F15 Factorial rings, unique factorization domains
- F20 Polynomial rings [See also 10M05.]
- F99 None of the above, but in this section

13G05 Integral domains

13Hxx Local rings and semilocal rings
- H05 Regular local rings
- H10 Special types (Macaulay, Gorenstein, etc.)
- H15 Multiplicity theory and related topics
- H99 None of the above, but in this section

13Jxx Topological rings {For ordered rings, see 06A70; see also 16A80.}
- J05 Power series rings
- J10 Complete rings
- J15 Henselian rings
- J20 Global topological rings
- J99 None of the above, but in this section

13K05 Witt vectors and related rings

13L05 Applications of logic to commutative algebra

14—XX ALGEBRAIC GEOMETRY
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

14Axx Foundations
- A05 Relevant commutative algebra [See also 13—XX.]
- A10 Varieties
- A15 Schemes
- A20 Generalizations (algebraic spaces, motifs)
- A25 Elementary questions
- A99 None of the above, but in this section

14Bxx Local theory
- B05 Singularities [See also 14E15.]
- B10 Infinitesimal methods
- B15 Local cohomology [See also 18F20.]
- B20 Formal neighborhoods
- B99 None of the above, but in this section

14Cxx Cycles and subschemes
- C05 Parametrization (Chow and Hilbert schemes)
- C10 Equivalence relations
- C15 Rational equivalence rings, intersection theory
- C20 Divisors, linear systems, Picard groups
- C25 Zero-cycles
- C30 Transcendental methods, Hodge theory
- C99 None of the above, but in this section

14Dxx Families, fibrations
- D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
- D10 Arithmetic ground fields (finite, local, global)
- D15 Formal methods; deformations [See also 32Gxx.]
- D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]
- D99 None of the above, but in this section

14Exx Mappings and correspondences
- E05 Rational maps, birational correspondences
- E10 General correspondences
- E15 Global theory of singularities, resolution
- E20 Coverings, fundamental group
- E25 Embeddings
- E30 Minimal models
- E35 Results in dimension ≤ 3
- E99 None of the above, but in this section

14Fxx Cohomology theory {See also 13Dxx, 18—XX.}
- F05 Vector bundles, sheaves, related constructions
- F10 Differentials and other special sheaves
- F15 Serre cohomology, K-theory [See also 13D15, 18F25.]
- F20 Grothendieck cohomology and topology
- F25 Classical real and complex cohomology
- F30 p-adic cohomology
- F35 Homotopy theory
- F99 None of the above, but in this section

14Gxx Arithmetic problems {For complex multiplication, see 10D25, 14K22.}
- G05 Rationality questions
- G10 Zeta-functions and related questions
- G13 Weil-Tate conjectures
- G15 Finite ground fields
- G20 p-adic ground fields (local fields)
- G25 Global ground fields
- G99 None of the above, but in this section

14Hxx Curves
- H05 Algebraic function fields
- H10 Families, moduli (algebraic)
- H15 Families, moduli (analytic) [See also 32G15.]
- H20 Singularities, local rings
- H25 Arithmetic ground fields
- H30 Coverings, fundamental group
- H35 Correspondences
- H40 Jacobians [See also 32G20.]
- H45 Special curves
- H99 None of the above, but in this section

14Jxx Surfaces and 3-dimensional varieties
- J05 Picard group
- J10 Families, moduli, classification: algebraic theory
- J15 Singularities, moduli, classification: analytic theory [See also 32J15.]
- J20 Arithmetic ground fields
- J25 Special surfaces
- J99 None of the above, but in this section

14Kxx Abelian varieties and schemes
- K05 Algebraic theory
- K10 Algebraic moduli, classification

K15 Arithmetic ground fields
K20 Analytic theory
K22 Complex multiplication [See also 10D25.]
K25 ϑ-functions
K30 Picard schemes, higher Jacobians
K99 None of the above, but in this section

14Lxx Group schemes {For linear algebraic groups, see 20Gxx.}
L05 Formal groups, p-divisible groups
L10 Group varieties
L15 Group schemes
L20 Finite group schemes
L25 Pro-algebraic group schemes
L99 None of the above, but in this section

14Mxx Special varieties
M05 Varieties defined by ring conditions (factorial, Macaulay)
M10 Complete intersections
M15 Grassmannians, homogeneous spaces
M20 Rational varieties
M99 None of the above, but in this section

14Nxx Classical methods and problems
N05 Projective techniques
N10 Enumerative problems
N99 None of the above, but in this section

15—XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A03 Vector spaces, linear dependence, rank
A06 Linear equations
A09 Matrix inversion, generalized inverses
A12 Conditioning of matrices [See also 65F35.]
A15 Determinants, permanents, other special matrix functions
A18 Eigenvalues and eigenvectors
A21 Canonical forms, reductions, classification
A24 Matrix equations and identities
A27 Commutativity
A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]
A33 Matrices over special rings (quaternions, finite fields, etc.)
A36 Matrices of integers [See also 10M20.]
A39 Linear inequalities
A42 Inequalities involving eigenvalues and eigenvectors
A45 Miscellaneous inequalities involving matrices
A48 Positive matrices and their generalizations
A51 Stochastic matrices
A54 Matrices over function rings in one or more variables
A57 Other types of matrices (hermitian, skew-hermitian, etc.)
A60 Norms of matrices, applications of functional analysis to matrix theory [See also 65F35. 65J05.]
A63 Quadratic and bilinear forms, inner products
A66 Clifford algebras
A69 Multilinear algebra, tensor products
A72 Vector and tensor algebra, theory of invariants
A75 Exterior algebra, Grassmann algebras
A78 Other algebras built from modules

16—XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13—XX.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A02 Integral domains, unique factorization domains (noncommutative)
A04 Noncommutative principal ideal rings, rings with a division algorithm
A06 Free algebras, free ideal rings (firs) and their generalizations [See also tensor algebra in 15A72.]
A08 Rings of quotients, noncommutative localization
A10 Noncommutative local rings
A12 Prime and semiprime rings
A14 Noncommutative analogues of Dedekind and Prüfer domains
A16 Separable algebras, Azumaya algebras and their generalizations [See also 13A20.]
A18 Orders, arithmetic in algebras
A20 Primitive and semiprimitive rings
A21 Radical theory
A22 Nil, nilpotent and radical rings
A24 Hopf algebras, algebraic theory [See also 57F05.]
A26 Group rings [See also 20C05.]
A28 Rings with involution [See also 46Kxx.]
A30 von Neumann regular rings and their generalizations [See also 06A30.]
A32 Idempotents in rings
A34 Rings with annihilator conditions
A36 Frobenius algebras, quasi-Frobenius rings and their generalizations
A38 Rings with polynomial identity
A40 Division rings, simple and semisimple Artin rings
A42 Rings of linear transformations, matrix rings, infinite matrix rings
A44 Finite rings [See also 12Cxx.]
A46 Chain conditions; finite dimensional algebras, Artin rings, Noetherian rings
A48 Structure, classification
A49 Duality theory
A50 Projective and flat modules and generalizations
A52 Injective modules, self-injective rings and generalizations
A54 Grothendieck groups of rings, K-theory of noncommutative rings [See also 18F25.]

A56 Extension theory
A58 Deformation theory of rings and algebras [See also 13D10, 32Gxx.]
A60 Homological dimension
A62 Homological methods [For cohomology of algebras and rings, see 18H15.]
A64 Modules and representations
A66 Ideal theory, prime ideals and their generalizations
A68 Lie, Jordan and other nonassociative structures on associative rings
A70 Commutativity theorems
A72 Automorphisms, derivations
A74 Galois theory
A76 Near rings
A78 Semirings and other generalizations of rings
A80 Topological rings and semirings [For ordered rings, see 06A70; see also 13Jxx.]

17—XX NONASSOCIATIVE RINGS AND ALGEBRAS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

17Axx General nonassociative algebras

A05 Power-associative
A10 Commutative power-associative
A15 Noncommutative Jordan algebras
A20 Flexible algebras
A25 Nodal algebras
A30 Algebras satisfying other identities
A99 None of the above, but in this section

17Bxx Lie algebras {For Lie groups, see 22Exx.}

B05 Structure theory
B10 Representations, algebraic theory (weights)
B15 Representations, analytic theory
B20 Simple, semisimple, reductive algebras (roots)
B25 Exceptional algebras
B30 Solvable, nilpotent algebras
B35 Universal enveloping algebras
B40 Automorphisms, derivations, other operators
B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx.]
B50 Lie p-algebras and bialgebras (Hopf algebras) of formal groups [See also 14L05, 16A24.]
B55 Homological methods in Lie algebra [For homology of Lie algebras, see 18H25.]
B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16A68, 17C40, 17C50.]
B65 Infinite dimensional Lie algebras [See also 22E65.]
B99 None of the above, but in this section

17Cxx Jordan algebras (commutative)

C05 Identities
C10 Structure theory
C15 Representations
C20 Simple, semisimple algebras
C25 Universal enveloping algebras
C30 Automorphisms, derivations, other operators
C35 Formally real domains of positivity [See also 32Nxx.]
C40 Exceptional Jordan algebras and associated Lie groups
C45 Homological methods in Jordan algebras [For homology of Jordan algebras, see 18H30.]
C50 Jordan rings associated with other structures [See also 16A68, 17B60.]
C99 None of the above, but in this section

17D05 Alternative rings

17E05 Other nonassociative rings and algebras

18—XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—04 Explicit machine computation and programs (not the theory of computation or programming)

18Axx General theory of categories and functors

A05 Definitions, generalizations
A10 Graphs, groupoids, neofunctors [See also 20Lxx.]
A15 Foundations, relations to logic and deductive systems [See also 02—XX.]
A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
A25 Functor categories, comma categories
A30 Limits and colimits (products, sums, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
A35 Complete categories, completions
A40 Adjoint functors (representable functors, universal constructions, reflexive subcategories, etc.), constructions of adjoints (Kan extensions, etc.)
A99 None of the above, but in this section

18Bxx Special categories

B05 Category of sets, characterizations
B10 Category of relations, additive relations, semigroups [See also 20Mxx.]
B15 Embedding theorems, universal categories [See also 18E20.]
B20 Categories of machines, automata, operative categories [See also 02F10, 68A25, 94A30, 94A35.]
B99 None of the above, but in this section

18Cxx Categories and algebraic theories

C05 Equational categories [See also 02—XX.]
C10 Theories (e.g. algebraic theories), structure, and semantics
C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]
C99 None of the above, but in this section

18Dxx Categories with structure
- D05 Double categories, 2-categories, bicategories, hypercategories
- D10 Monoidal categories (= multiplicative categories)
- D15 Closed categories (closed monoidal and cartesian closed categories, etc.)
- D20 Enriched categories (over closed or monoidal categories)
- D25 Strong functors, strong adjunctions
- D30 Fibered categories
- D35 Structured objects in a category (group objects, etc.)
- D99 None of the above, but in this section

18Exx Abelian categories
- E05 Preadditive, additive categories
- E10 Exact categories, abelian categories
- E15 Grothendieck categories
- E20 Embedding theorems [See also 18B10.]
- E25 Derived functors and satellites
- E30 Derived categories, triangulated categories
- E35 Localization of categories
- E40 Torsion theories, radicals
- E99 None of the above, but in this section

18Fxx Categories and geometry
- F05 Local categories and functors
- F10 Grothendieck topologies [See also 14F20.]
- F15 Abstract manifolds and fiber bundles [See also 55Fxx, 57Bxx.]
- F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 55B30.]
- F25 Algebraic K-theory [See also 13D15, 14F15, 16A54.]
- F30 Grothendieck groups [See also 13D15, 16A54.]
- F99 None of the above, but in this section

18Gxx Homological algebra
- G05 Projectives and injectives [See also 13C10, 16A50, 16A52.]
- G10 Resolutions; derived functors [See also 18E25.]
- G15 Ext and Tor, generalizations, Künneth formula [See also 55J25.]
- G20 Homological dimension [See also 13Dxx, 16A62.]
- G25 Relative homological algebra, projective classes
- G30 Simplicial sets, simplicial objects (in a category) [See also 55J10.]
- G35 Chain complexes [See also 18E30, 55J15.]
- G40 Spectral sequences, hypercohomology [See also 55Hxx.]
- G99 None of the above, but in this section

18Hxx Cohomology of specified algebraic systems
- H05 General methods; models [See also 18E25, 18G25.]
- H10 Cohomology and homology of groups [See also 20Jxx.]
- H15 Cohomology and homology of algebras and rings [See also 16A62.]
- H20 Cohomology and homology of commutative rings [See also 13Dxx.]
- H25 Cohomology of Lie algebras [See also 17B55.]
- H30 Cohomology of Jordan algebras [See also 17C45.]
- H35 Cohomology of other nonassociative algebras [See also 17—XX.]
- H40 Cohomology of other algebraic systems
- H99 None of the above, but in this section

20—XX GROUP THEORY AND GENERALIZATIONS {For ordered groups, see 06A55.}
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

20Axx Foundations
- A05 Axiomatics and elementary properties
- A10 Metamathematical considerations [For word problems, see 20F10.]
- A99 None of the above, but in this section

20Bxx Finite permutation groups
- B05 General theory
- B10 Characterization theorems
- B15 Uniprimitive groups
- B20 Multiply transitive groups
- B25 Automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 20G40, 20H30, 50—XX.]
- B99 None of the above, but in this section

20Cxx Representation theory of finite groups
- C05 Group rings and their modules [See also 16A26.]
- C10 Integral representations
- C15 Ordinary representations and characters
- C20 Modular representations and characters
- C25 Projective representations and multipliers
- C30 Representations of symmetric groups and other special groups
- C35 Applications to physics
- C99 None of the above, but in this section

20Dxx Abstract finite groups
- D05 Simple groups [See also 20G40.]
- D10 Solvable groups
- D15 Nilpotent groups, p-groups
- D20 Sylow subgroups, π-groups
- D25 Special subgroups (Frattini, Fitting, etc.)
- D30 Series and lattices of subgroups
- D35 Subnormal subgroups
- D40 Products of subgroups
- D45 Automorphisms
- D99 None of the above, but in this section

20Exx Infinite groups
- E05 Free nonabelian groups
- E10 Varieties of groups
- E15 Chains of subgroups (solvable groups, nilpotent groups, etc.)
- E20 Special subgroups other than commutator types
- E25 Local properties, residual properties
- E30 Free products, generalized properties
- E35 Representation in associative rings, Lie rings, combinatorial structures, etc.
- E40 Fundamental groups, etc. [See also 55A05, 57Exx.]
- E99 None of the above, but in this section

20Fxx General groups, finite or infinite
- F05 Generators and relations
- F10 Word problems
- F15 Structure theorems
- F20 Limits, profinite groups
- F25 Extensions, wreath products, other compositions
- F30 Subgroup lattices, maximal subgroups, subnormal subgroups, etc.
- F35 Commutator subgroups and their generalizations
- F40 Associated Lie structures
- F45 Engel conditions
- F50 Periodic groups
- F55 Automorphisms
- F99 None of the above, but in this section

20Gxx Linear algebraic groups (classical groups)
{See also 10C30, 14—XX; for analytic methods on p-adic groups and adèle groups, see 22E55.}
- G05 Representation theory [For infinite dimensional representations, see 22E50.]
- G10 Cohomology theory
- G15 Linear algebraic groups over arbitrary fields
- G20 Linear algebraic groups over the reals, the complexes, the quaternions
- G25 Linear algebraic groups over local fields and their integers
- G30 Linear algebraic groups over global fields and their integers
- G35 Linear algebraic groups over adèles and other rings and schemes
- G40 Linear algebraic groups over finite fields
- G45 Applications to physics; explicit representations
- G99 None of the above, but in this section

20Hxx Other groups of matrices
- H05 Unimodular groups, congruence subgroups
- H10 Fuchsian groups and their generalizations [See also 30A58, 32Nxx.]
- H15 Other geometric groups, including crystallographic groups [See also 50—XX.]
- H20 Other matrix groups over fields
- H25 Other matrix groups over rings
- H30 Other matrix groups over finite fields
- H99 None of the above, but in this section

20Jxx Connections with homological algebra and category theory
- J05 Homological methods in group theory
- J10 Groups arising as cohomology groups
- J15 Category of groups
- J99 None of the above, but in this section

20Kxx Abelian groups
- K05 Finitely generated groups
- K10 Torsion groups
- K15 Torsion free groups, finite rank
- K20 Torsion free groups, infinite rank
- K25 Direct sums, direct products, etc.
- K30 Automorphisms, homomorphisms, endomorphisms
- K35 Extensions
- K40 Homological and categorical methods [See also 18H10.]
- K45 Topological methods
- K99 None of the above, but in this section

20Lxx Groupoids (small categories in which all morphisms are isomorphisms)
- L05 General theory
- L10 Connections with group theory
- L15 Connections with topology
- L99 None of the above, but in this section

20Mxx Semigroups
- M05 Free semigroups, generators and relations, word problem
- M10 Structure theory, ideals, idempotents, etc.
- M15 Mappings of semigroups
- M20 Semigroups of transformations, etc. [See also 47D05.]
- M25 Semigroup rings, multiplicative semigroups of rings
- M30 Representation of semigroups
- M35 Semigroups in automata theory, linguistics, etc. [See also 02F10.]
- M99 None of the above, but in this section

20Nxx Other generalizations of groups
- N05 Loops, quasigroups [See also 05Bxx.]
- N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
- N15 n-ary systems
- N99 None of the above, but in this section

22—XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Exx, 58—XX. For abstract harmonic analysis, see 43—XX.}

- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

22Axx Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 46L05.}
- A05 Structure of general topological groups
- A10 Analysis on general topological groups
- A15 Structure of topological semigroups
- A20 Analysis on topological semigroups
- A25 Representations of general topological groups and semigroups
- A30 Representations of other topological algebraic systems
- A99 None of the above, but in this section

22Bxx Locally compact abelian groups (LCA groups)
- B05 General properties and structure of LCA groups
- B10 Structure of group algebras of LCA groups
- B99 None of the above, but in this section

22C05 Compact groups

22Dxx Locally compact groups and their algebras
- D05 General properties and structure of locally compact groups
- D10 Unitary representations of locally compact groups
- D12 Other representations of locally compact groups

D15 Group algebras of locally compact groups
D20 Representations of group algebras
D25 C^*-algebras and W^*-algebras arising from group representations
D30 Induced representations
D35 Duality theorems
D40 Ergodic theory on groups [See also 28A65.]
D45 Automorphism groups of locally compact groups
D99 None of the above, but in this section

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Exx, 57Fxx; for the analysis thereof, see 43A80, 43A85, 43A90.}

E05 Local Lie groups [See also 34—XX, 35—XX, 58H05.]
E10 General properties and structure of complex Lie groups
E15 General properties and structure of real Lie groups
E20 General properties and structure of other Lie groups
E25 Nilpotent and solvable Lie groups
E30 Analysis on real and complex Lie groups [See also 33A75, 43—XX.]
E35 Analysis on p-adic Lie groups [See also 12A85.]
E40 Discrete subgroups of Lie groups [See also 32Nxx.]
E43 Structure and representation of the Lorentz group
E45 Representations of Lie and linear algebraic groups: analytic methods [For the purely algebraic theory, see 20G05.]
E50 Representations of Lie and linear algebraic groups over local fields: analytic methods [For the purely algebraic theory, see 20G05.]
E55 Representations of Lie and linear algebraic groups over global fields and adèle rings: analytic methods [For the purely algebraic theory, see 20G05.]
E60 Lie algebras of Lie groups [For the algebraic theory of Lie algebras, see 17Bxx.]
E65 Infinite dimensional Lie groups and their Lie algebras [See also 17B65, 58H05.]
E70 Applications of Lie groups to physics; explicit representations [See also 81—XX.]
E99 None of the above, but in this section

26—XX REAL FUNCTIONS {See also 54C30.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A03 Foundations: limits and generalizations, elementary topology of the line
A06 One-variable calculus
A09 Elementary functions
A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]
A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) [For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.]
A16 Lipschitz (Hölder) classes
A18 Iteration [See also 39A20.]
A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]
A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]
A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
A30 Singular functions, Cantor functions, functions with other special properties
A33 Fractional derivatives and integrals
A36 Antidifferentiation
A39 Denjoy and Perron integrals, other special integrals
A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28—XX.]
A45 Functions of bounded variation, generalizations
A48 Monotonic functions, generalizations
A51 Convexity, generalizations
A54 Several variables: continuity and differentiation questions
A57 Several variables: implicit function theorems, Jacobians, transformations with several variables
A60 Calculus of vector functions
A63 Integration: length, area, volume
A66 Integral formulas (Stokes, Gauss, Green, etc.)
A69 Special properties of functions of several variables, Hölder conditions, etc.
A72 Superposition of functions
A75 Polynomials (analytic properties, inequalities, etc.)
A78 Polynomials (location of zeros) [See also 12D10, 30A08, 65H05.]
A81 Rational functions
A82 Inequalities for trigonometric functions and polynomials
A84 Inequalities involving derivatives and differential and integral operators
A86 Inequalities for sums, series and integrals
A87 Other analytical inequalities
A90 Real-analytic functions
A93 C^∞-functions, quasi-analytic functions
A96 Calculus of functions on infinite-dimensional spaces
A98 Nonstandard analysis [See also 02H25.]

28—XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58—XX.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Classes of sets (Borel fields, σ-rings, etc.) measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]
A10 Real- or complex-valued set functions, contents, measures, outer measures, capacities, etc.
A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]
A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
A25 Integration with respect to measures and other set functions
A30 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.)
A35 Measures and integrals in product spaces
A40 Measures and integrals in function spaces and linear spaces, Weiner measure [See also 46Gxx.]
A45 Vector-valued measures and integrals, integration of vector-valued functions [See also 46G10.]
A50 Integration and disintegration of measures [For lifting theory, see 46G15.]
A55 Measures and integrals with values in general ordered systems
A60 Measures on Boolean rings, measure algebras [See also 54H10.]
A65 Measure-preserving transformations, flows (dynamical systems), measure-theoretic ergodic theory [See also 47A35, 54H20, 58Fxx.]
A70 Invariant measures, Haar measure [See also 43A05.]
A75 Length, area, volume, other geometric measure theory [See also 26A63, 49F20.]

30—XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58—XX.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A02 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
A04 Inequalities in the complex domain
A06 Polynomials
A08 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) [For algebraic theory, see 12D10; for real methods, see 26A78.]
A10 Power series (including lacunary series)
A12 Boundary behavior of power series, overconvergence
A14 Analytic continuation
A16 Dirichlet series and other series expanpansions, exponential series [See also 40—XX, 41—XX, 42—XX.]
A18 Completeness problems, closure of a system of functions
A20 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39A15.]
A22 Continued fractions [See also 10A30, 40A15.]
A24 Conformal mappings of special domains
A26 Covering theorems in conformal mapping theory
A28 Numerical methods in conformal mapping theory
A30 General theory of conformal mappings
A31 Kernel functions and applications
A32 Special classes of univalent and multivalent functions (star-like, convex, bounded rotation, etc.)
A34 Coefficient problems for univalent and multivalent functions
A36 General theory of univalent and multivalent functions
A38 Extremal problems, variational methods
A40 Extremal problems, other methods
A42 Maximum principle; Schwarz' Lemma, Lindelöf principle, analogues and generalizations
A44 Capacity and harmonic measure in the complex plane [See also 31A15.]
A46 Compact Riemann surfaces and uniformization [See also 14H15, 32G15.]
A48 Classification theory of Riemann surfaces
A50 Ideal boundary theory
A52 Differentials on Riemann surfaces
A58 Discontinuous groups and automorphic functions [See also 10Dxx, 20H10 and 32Nxx.]
A60 Quasiconformal mappings and functions
A62 Representations of entire functions by series and integrals
A64 Special classes of entire functions and growth estimates
A66 Entire functions, general theory
A68 Meromorphic functions, general theory
A70 Distribution of values, Nevanlinna theory
A72 Cluster sets, prime ends, boundary behavior
A74 Normal functions, normal families
A76 Blaschke products, bounded characteristic, bounded functions, functions with positive real part
A78 H^p, quasianalytic and other classes of functions
A80 Moment problems, interpolation problems
A82 Approximation in the complex domain
A84 Asymptotic representations in the complex domain
A86 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx.]

A88 Boundary value problems
A90 Topological function theory
A91 Nonstandard function theory [See also 02H25.]
A92 Generalized analytic functions
A93 Pseudo-analytic functions
A94 p-analytic functions
A95 Discrete analytic functions
A96 Other generalizations of analytic functions (including abstract-valued functions)
A97 Functions of hypercomplex variables and generalized variables
A98 Spaces and algebras of analytic functions [See also 46J15.]

31—XX POTENTIAL THEORY [For probabilistic potential theory, see 60J45.]

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

31Axx Two-dimensional theory

A05 Harmonic, subharmonic, superharmonic functions
A10 Integral representations
A15 Potentials and capacity, harmonic measure, extremal length
A20 Boundary behavior (Fatou type theorems, etc.)
A25 Boundary value and inverse problems
A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
A35 Connections with differential equations
A99 None of the above, but in this section

31Bxx Higher dimensional theory

B05 Harmonic, subharmonic, superharmonic functions
B10 Integral representations
B15 Potentials and capacities, extremal length
B20 Boundary value and inverse problems
B25 Boundary behavior
B30 Biharmonic and polyharmonic equations and functions
B35 Connections with differential equations
B99 None of the above, but in this section

31Cxx Other generalizations

C05 Harmonic, subharmonic, superharmonic functions
C10 Pluriharmonic and plurisubharmonic functions [See also 32F05.]
C15 Potentials and capacities
C20 Discrete potential theory and numerical methods
C25 Dirichlet spaces
C99 None of the above, but in this section

31D05 Axiomatic potential theory

32—XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

32Axx Holomorphic functions of several complex variables

A05 Power series, series of functions
A07 Special domains (Reinhard, Hartogs, tube domains, etc.)
A10 Holomorphic functions
A15 Entire functions
A17 Normal families
A20 Meromorphic functions
A25 Integral representation and residue theory
A30 Other generalizations of function theory of one complex variable [For functions of several hypercomplex variables, see 30A97.]
A99 None of the above, but in this section

32Bxx Local analytic geometry [See also 13—XX and 14—XX.]

B05 Analytic algebras and generalizations, preparation theorems
B10 Germs of analytic sets
B15 Analytic subsets of affine space
B20 Semi-analytic sets
B99 None of the above, but in this section

32Cxx General theory of analytic spaces

C05 Real-analytic manifolds, real-analytic spaces
C10 Complex manifolds [For almost complex manifolds, see 53C15.]
C15 Complex spaces
C20 Normal analytic spaces
C25 Analytic subsets and submanifolds
C30 Integration on analytic sets and spaces
C35 Analytic sheaves and cohomology groups [See also 18F20, 55B30.]
C40 Singularities
C45 Modifications, resolution of singularities [See also 14E15.]
C99 None of the above, but in this section

32Dxx Analytic continuation

D05 Domains of holomorphy
D10 Envelopes of holomorphy
D15 Continuation of analytic objects
D20 Removable singularities
D99 None of the above, but in this section

32Exx Holomorphic convexity

E05 Holomorphically convex complex spaces, reduction theory
E10 Stein spaces, Stein manifolds
E15 Runge pairs
E20 Polynomial convexity
E25 Algebras of holomorphic functions
E30 Holomorphic and polynomial approximation
E99 None of the above, but in this section

32Fxx Geometric convexity
- F05 Plurisubharmonic functions and generalizations [See also 31C10.]
- F10 q-convexity, q-concavity
- F15 Pseudoconvex domains
- F99 None of the above, but in this section [For the theory of the $\bar{\partial}$-Neumann problem on pseudoconvex domains, see 35N15.]

32Gxx Deformations of analytic structures
- G05 Deformations of complex structures [See also 13D10, 16A58, 58H05.]
- G10 Deformations of submanifolds and subspaces
- G13 Analytic moduli problems [For algebraic moduli problems, see 14D20.]
- G15 Moduli of Riemann surfaces, Teichmüller theory [See also 30A46.]
- G20 Period matrices
- G99 None of the above, but in this section

32Hxx Analytic mappings
- H05 Representative domains
- H10 Bergman kernel function
- H15 Invariant metrics and pseudodistances
- H20 Hyperbolic complex manifolds
- H25 Picard type theorems and generalizations
- H99 None of the above, but in this section

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30A46.}
- J05 Compactification
- J10 Algebraic dependence theorems
- J15 Compact surfaces [See also 14Jxx.]
- J20 Algebraicity criteria
- J25 Transcendental methods of algebraic geometry [See also 14C30.]
- J99 None of the above, but in this section

32Kxx Generalizations of analytic spaces
- K05 Banach analytic spaces [See also 58Bxx.]
- K10 Nonarchimedean analytic spaces
- K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]
- K99 None of the above, but in this section

32Lxx Holomorphic fiber spaces {See also 55Fxx.}
- L05 Holomorphic fiber bundles and generalizations
- L10 Sheaves and cohomology of sections of holomorphic vector bundles [See also 18F20, 55B30.]
- L99 None of the above, but in this section

32Mxx Complex spaces with a group of automorphisms
- M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]
- M10 Homogeneous complex manifolds [See also 57F15.]
- M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57F15.]
- M99 None of the above, but in this section

32Nxx Automorphic functions {See also 10Dxx, 20H10, 22E40, 30A58.}
- N05 General theory of automorphic functions of several complex variables
- N10 Automorphic forms
- N15 Automorphic functions in symmetric domains
- N99 None of the above, but in this section

33—XX SPECIAL FUNCTIONS {33—XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42A52. Expansions in orthogonal functions are treated in 42A56.}

- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)
- A10 Exponential and trigonometric functions
- A15 Gamma and beta functions
- A20 Error function, probability integral
- A25 Elliptic functions and integrals
- A30 Hypergeometric functions of one and several variables, generalizations
- A35 E-functions, G-functions, etc.
- A40 Cylindrical functions, Bessel functions
- A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials
- A50 Gegenbauer functions
- A55 Lamé, Mathieu, spheroidal wave functions
- A60 Other wave functions
- A65 Orthogonal special functions and polynomials (Čebyšev, Hermite, Jacobi, Laguerre, etc.)
- A70 Other special functions
- A75 Special functions and Lie groups

34—XX ORDINARY DIFFERENTIAL EQUATIONS

- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

34Axx General theory
- A05 Solutions in closed form, integration by quadratures, reduction of differential equations
- A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions
- A15 Initial value problems: continuation of solutions
- A20 Differential equations in the complex domain [See also 30A70.]
- A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44—XX, 47E05.]
- A30 Linear equations and systems
- A35 Differential equations of infinite order
- A40 Differential inequalities
- A45 Theoretical approximation of solutions

A50 Numerical approximation of solutions [For numerical analysis, see 65Lxx.]
A99 None of the above, but in this section

34Bxx Boundary value problems
B05 Linear equations
B10 Multipoint boundary value problems
B15 Nonlinear boundary value problems
B20 Weyl theory and its generalizations
B25 Spectral theory, Sturm-Liouville, and scattering theory; eigenfunctions, eigenvalues, and expansions [See also 42—XX, 43—XX, 47Axx, 47Bxx, 47E05.]
B30 Special equations (Mathieu, Hill, Bessel, etc.) [See also 33—XX.]
B99 None of the above, but in this section

34Cxx Qualitative theory
C05 Limit cycles, singular points
C10 Zeros, disconjugacy, growth, boundedness, oscillation and comparison of solutions
C15 Nonlinear oscillations
C20 Transformation and reduction of equations and systems
C25 Periodic and almost periodic solutions
C30 Manifolds of solutions, averaging method [See also 47H10, 58Fxx.]
C35 Dynamical systems [See also 58Fxx, 70—XX.]
C40 Equations and systems on manifolds [See also 58Fxx, 58Gxx.]
C99 None of the above, but in this section

34Dxx Stability theory {See also 58F10, 93Dxx.}
D05 Asymptotic properties, characteristic exponents
D10 Perturbations
D15 Singular perturbations
D20 Ljapunov stability
D25 Popov-type stability
D30 Structural stability and analogous concepts [See also 58Fxx.]
D35 Stability of manifolds of solutions
D99 None of the above, but in this section

34Exx Asymptotic theory
E05 Asymptotic expansions
E10 Perturbations
E15 Singular perturbations, general theory
E20 Singular perturbations, turning point theory, WKB-methods
E99 None of the above, but in this section

34F05 Equations and systems with randomness {See also 60K05, 93Exx.}

34G05 Differential equations in Banach and other abstract spaces {See also 47Bxx.}

34H05 Control problems {See also 49—XX, 93—XX.}

34Jxx Functional differential equations
J05 General theory
J10 Differential-difference equations
J99 None of the above, but in this section

34Kxx Functional-differential equations with retarded arguments, functional-differential equations with deviating arguments
K05 General theory
K10 Boundary value problems
K15 Qualitative theory
K20 Stability theory
K25 Asymptotic theory
K99 None of the above, but in this section

35—XX PARTIAL DIFFERENTIAL EQUATIONS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

35Axx General theory
A05 General existence and uniqueness theorems
A10 Cauchy-Kowalewski theorems
A15 Variational methods
A20 Analytic methods, singularities
A22 Transform methods
A25 Other special methods
A30 Geometric theory, characteristics, transformations
A35 Theoretical approximation to solutions
A40 Numerical approximation to solutions [For numerical analysis, see 65Mxx, 65Nxx, 65P05.]
A99 None of the above, but in this section

35Bxx Qualitative properties of solutions
B05 Comparison theorems; oscillation, zeros and growth of solutions
B10 Periodic solutions
B15 Almost periodic solutions
B20 Perturbations
B25 Singular perturbations
B30 Dependence of solutions on initial and boundary data, parameters
B35 Stability and control, boundedness [See also 93—XX.]
B40 Asymptotic behavior of solutions
B45 Differential inequalities, a priori estimates
B99 None of the above, but in this section

35Cxx Representations of solutions
C05 Solutions in closed form
C10 Series solutions, expansion theorems
C15 Integral representations
C99 None of the above, but in this section

35Dxx Generalized solutions
D05 Existence of generalized solutions
D10 Regularity of generalized solutions
D99 None of the above, but in this section

35Exx Equations and systems with constant coefficients {See also 35N05.}
E05 Fundamental solutions
E10 Convexity properties
E15 Initial value problems
E99 None of the above, but in this section

35Fxx General first order equations and systems
F05 Linear equations and systems, general
F10 Initial value problems for linear equations and systems
F15 Boundary value problems for linear equations and systems
F20 Nonlinear equations and systems, general
F25 Initial value problems for nonlinear equations and systems
F30 Boundary value problems for nonlinear equations and systems
F99 None of the above, but in this section

35Gxx General higher order equations and systems
- G05 Linear equations and systems, general
- G10 Initial value problems for linear equations and systems
- G15 Boundary value problems for linear equations and systems
- G20 Nonlinear equations and systems, general
- G25 Initial value problems for nonlinear equations and systems
- G30 Boundary value problems for nonlinear equations and systems
- G99 None of the above, but in this section

35H05 Hypoelliptic equations and systems

35Jxx Elliptic equations and systems
- J05 Laplace's equation, reduced wave equation (Helmholtz), Poisson's equation
- J10 Schrödinger operator [See also 47A40.]
- J15 Second order equations, general
- J20 Second order equations, variational methods
- J25 Second order equations, boundary value problems
- J30 Higher order equations, general
- J35 Higher order equations, variational problems
- J40 Higher order equations, boundary value problems
- J45 Systems, general
- J50 Systems, variational methods
- J55 Systems, boundary value problems
- J60 Nonlinear equations and systems
- J65 Nonlinear boundary value problems for linear equations and systems
- J67 Boundary values of solutions
- J70 Equations and systems of degenerate type
- J99 None of the above, but in this section

35Kxx Parabolic equations and systems
- K05 Heat equation
- K10 Second order equations, general
- K15 Second order equations, initial value problems
- K20 Second order equations, boundary value problems
- K25 Higher order equations, general
- K30 Higher order equations, initial value problems
- K35 Higher order equations, boundary value problems
- K40 Systems, general
- K45 Systems, initial value problems
- K50 Systems, boundary value problems
- K55 Nonlinear equations and systems
- K60 Nonlinear boundary value problems for linear equations and systems
- K99 None of the above, but in this section

35Lxx Hyperbolic equations and systems
- L05 Wave equation
- L10 Second order equations, general
- L15 Second order equations, initial value problems
- L20 Second order equations, boundary value problems
- L25 Higher order equations, general
- L30 Higher order equations, initial value problems
- L35 Higher order equations, boundary value problems
- L40 First order systems, general
- L45 First order systems, initial value problems
- L50 First order systems, boundary value problems
- L55 Higher order hyperbolic systems
- L60 Nonlinear equations and systems, general
- L65 Conservation laws [See also 76Axx.]
- L99 None of the above, but in this section

35M05 Equations and systems of mixed type (Tricomi, etc.) {For degenerate types, elliptic, see 35Jxx, hyperbolic, see 35Lxx, etc.}

35Nxx Overdetermined systems
- N05 Constant coefficients
- N10 Variable coefficients, general
- N15 $\bar{\partial}$-Neumann problem and generalizations; formal complexes [See also 58G05.]
- N99 None of the above, but in this section

35Pxx Spectral theory and eigenvalue problems {See also 47Axx, 47Bxx, 47F05.}
- P05 General spectral theory
- P10 Completeness of eigenfunctions, eigenfunction expansions
- P15 Estimation of eigenvalues, upper and lower bounds
- P20 Asymptotic distribution of eigenvalues and eigenfunctions
- P25 Scattering theory [See also 47A40.]
- P99 None of the above, but in this section

35Qxx Special equations and problems {See also 35J05, 35K05, 35L05}
- Q05 Euler-Poisson-Darboux equation and generalizations
- Q10 Navier-Stokes equation [See also 76D05.]
- Q15 Riemann-Hilbert problems [See also 30A88, 31A25.]
- Q99 None of the above, but in this section

35Rxx Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE's, see 60H15.}
- R05 Equations with discontinuous coefficients or data
- R10 Difference-partial differential equations, equations with time lag
- R15 Equations on function spaces
- R20 Operator equations, general [See also 34G05, 47A50, 47H15.]
- R25 Improperly posed problems
- R30 Inverse problems (undetermined coefficients, etc.)
- R99 None of the above, but in this section

35Sxx Pseudodifferential operators {See also 47G05.}
- S05 General theory
- S10 Initial value problems
- S15 Boundary value problems
- S99 None of the above, but in this section

39—XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS

- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

A05 Finite differences, general
A10 Difference equations
A15 Functional equations, general [For functional-differential equations, see 34Jxx.]
A20 Classical functional equations
A25 Linear and multilinear functional equations
A30 Functional equations in several variables, systems
A35 Matrix functional equations
A40 Functional equations on abstract structures

40—XX SEQUENCES, SERIES, SUMMABILITY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

40Axx Convergence and divergence of infinite limiting processes

A05 Convergence and divergence of series and sequences
A10 Convergence and divergence of integrals
A15 Convergence and divergence of continued fractions [See also 30A22.]
A20 Convergence and divergence of infinite products
A25 Approximation to limiting values (summation of series, etc.) [For the Euler-Maclaurin summation formula, see 65B15.]
A99 None of the above, but in this section

40B05 Multiple sequences and series

40Cxx General summability methods

C05 Matrix methods
C10 Integral methods
C15 Function theoretic methods (including power series methods and semicontinuous methods)
C99 None of the above, but in this section

40Dxx Direct theorems on summability

D05 General theorems
D10 Tauberian constants and oscillation limits
D15 Convergence factors and summability factors
D20 Summability and bounded fields of methods
D25 Inclusion and equivalence theorems
D99 None of the above, but in this section

40E05 Tauberian theorems

40F05 Absolute and strong summability

40Gxx Special methods of summability

G05 Cesàro, Euler, Nörlund and Hausdorff methods
G10 Abel, Borel and power series methods
G99 None of the above, but in this section

40H05 Functional analytic methods in summability

40J05 Summability in abstract structures {See also 43A55.}

41—XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30A80 and 30A82; for all trigonometric approximation and interpolation, see 42A08, 42A12.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Interpolation [See also 42A12 and 65D05.]
A10 Approximation by polynomials [For approximation by trigonometric polynomials, see 42A08.]
A15 Spline approximation
A20 Approximation by rational functions
A25 Rate of convergence, degree of approximation
A30 Approximation by other special function classes
A35 Approximation by operators (in particular, by integral operators)
A40 Saturation classes
A45 Approximation by arbitrary linear and nonlinear expressions; widths and entropy
A50 Best approximation (Čebyšev, etc.)
A55 Approximate quadratures
A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30A84.]
A63 Multidimensional problems
A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

42—XX FOURIER ANALYSIS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A04 Trigonometric polynomials, inequalities, extremal problems
A08 Approximation by trigonometric polynomials
A12 Trigonometric interpolation
A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series
A18 Multipliers
A20 Convergence of Fourier and trigonometric series
A24 Summability of trigonometric series
A28 Absolute convergence, absolute summability

A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
A36 Probabilistic methods in Fourier analysis
A40 Conjugate functions, conjugate series, singular integrals
A44 Lacunary series of trigonometric and other functions
A48 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
A52 Orthogonal functions and polynomials, general theory [See also 33A65.]
A56 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
A60 Series of general orthogonal functions and generalized Fourier expansions
A62 Uniqueness and localization for orthogonal series
A64 Completeness of sets of functions
A68 Fourier transforms
A72 Fourier-Stieltjes transforms [See also 60E05.]
A76 Other transforms of Fourier type [See also 44A60.]
A80 Trigonometric moment problems
A84 Classical almost periodic functions [See also 43A60.]
A88 Positive definite functions
A92 Multiple Fourier series and integrals
A96 Convolution, factorization

43—XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
A05 Measures on groups and semigroups
A07 Means on groups and semigroups
A10 Measure algebras on groups and semigroups
A15 L_p spaces and other function spaces on groups and semigroups
A20 L_1 algebras on groups and semigroups
A22 Homomorphisms and multipliers of function spaces on groups
A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
A30 Fourier and Fourier-Stieltjes transforms on non-abelian groups and on semigroups
A32 Other transforms and operators of Fourier type
A35 Positive definite functions on groups
A40 Character groups and dual objects
A45 Spectral synthesis on groups and semigroups
A50 Convergence of Fourier series and of inverse transforms
A55 Summability methods on groups and semigroups
A60 Almost periodic functions on groups and semigroups
A65 Representations of groups and semigroups
A70 Analysis on specific locally compact abelian groups [See also 12A85.]
A75 Analysis on specific compact groups
A80 Analysis on other specific Lie groups
A85 Analysis on homogeneous spaces
A90 Spherical functions
A95 Categorical methods [See also 18—XX.]

44—XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 General transforms [See also 42A76.]
A10 Laplace transform
A15 Special transforms (Legendre, Hilbert, etc.)
A20 Transforms of special functions
A25 Singular integrals (Calderón-Zygmund, etc.) [See also 47G05.]
A30 Multiple transforms
A35 Convolution
A40 Calculus of Mikusiński and other similar operational calculi
A45 Classical operational calculus
A50 Moment problems [See also 42A80.]

45—XX INTEGRAL EQUATIONS
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems {See also 34B25, 35Pxx, 47E05.}
45D05 Volterra integral equations {See also 34A10.}
45Exx Singular integral equations
E05 Integral equations with Cauchy type kernels [See also 30A88, 35J15, 44A15, 44A35.]
E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 44A15, 44A35, 47B35.]
E99 None of the above, but in this section
45F05 Systems of linear integral equations
45Gxx Nonlinear integral equations {See also 47Hxx.}
G05 Singular nonlinear integral equations
G99 Other nonlinear integral equations

45H05 **Miscellaneous special kernels {See also 44A15.}**
45J05 **Integro-ordinary differential equations**
45K05 **Integro-partial differential equations**
45Lxx **Approximation of solutions**
L05 Theoretical approximation of solutions
L10 Numerical approximation of solutions [For numerical analysis, see 65R05.]
45Mxx **Qualitative behavior**
M05 Asymptotics
M10 Stability theory
M99 None of the above, but in this section
45N05 **Abstract integral equations, integral equations in abstract spaces**

46—XX FUNCTIONAL ANALYSIS {For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
46Axx **Topological linear spaces**
A05 Locally convex spaces
A07 Barrelled spaces
A09 Bornological spaces
A10 Locally bounded topological linear spaces
A15 Other topological linear spaces
A20 Duality theory
A25 Reflexivity and semi-reflexivity
A30 Open mappings and closed graph theorems and completeness (including B-, B_r-completeness)
A35 Summability and bases
A40 Ordered topological linear spaces, vector lattices
A45 Sequence spaces (including Köthe spaces)
A99 None of the above, but in this section
46Bxx **Normed linear spaces and Banach spaces {For function spaces, see 46Exx.}**
B05 Topology in terms of the norms
B10 Duality and reflexivity
B15 Summability and bases
B99 None of the above, but in this section
46Cxx **Inner product spaces, Hilbert spaces {For function spaces, see 46Exx.}**
C05 Geometry and topology of the spaces
C10 Other properties of such spaces
46D05 **Spaces with indefinite inner product**
46Exx **Function spaces {For function algebras, see 46J10.}**
E05 Lattices of continuous, differentiable or analytic functions
E10 Topological linear spaces of continuous, differentiable or analytic functions
E15 Banach spaces of continuous, differentiable or analytic functions
E20 Hilbert spaces of continuous, differentiable or analytic functions
E25 Rings and algebras of continuous, differentiable or analytic functions [For Banach function algebras, see 46J10, 46J15.]
E30 Spaces of measurable functions, L^p spaces, Orlicz spaces [See also 43A15.]
E35 Sobolev spaces, embedding theorems, trace theorems, interpolation spaces
E40 Spaces of vector- and operator-valued functions
E99 None of the above, but in this section
46Fxx **Distributions, generalized functions, distribution spaces**
F05 Topological linear spaces of test functions and distributions
F10 Operations with distributions
F15 Hyperfunctions, analytic functionals [See also 32A25, 32C35.]
F99 None of the above, but in this section
46Gxx **Measures, integration, derivatives {For integration on infinite-dimensional spaces, see 28A40; for nonlinear functional analysis, see 58—XX, especially 58Cxx.}**
G05 Derivatives
G10 Vector-valued measures and integration
G15 Lifting theory
G99 None of the above, but in this section
46Hxx **Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43—XX.}**
H05 General theory
H10 Ideals and subalgebras
H15 Representations
H20 Structure, classification
H25 Normed modules and Banach modules
H99 None of the above, but in this section
46Jxx **Commutative Banach algebras**
J05 General theory
J10 Banach algebras of continuous functions, function algebras
J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30A98, 32E25.]
J20 Ideals, maximal ideals, boundaries
J25 Representations
J30 Subalgebras
J35 Structure, classification
J99 None of the above, but in this section
46Kxx **Rings and algebras with an involution**
K05 Ideals, subalgebras
K10 Representations
K15 Hilbert algebras
K99 None of the above, but in this section
46Lxx **Rings and algebras of operators, with or without involution {For other algebraic systems of operators, see 47Dxx.}**
L05 C^*-algebras ($= B^*$-algebras) [See also 22D25.]
L10 von Neumann algebras ($=$ rings of operators, W^*-algebras)
L15 Nonselfadjoint operator algebras on Hilbert space
L20 Operator algebras on Banach and linear topological spaces
L25 Dual spaces of operator algebras and topological groups
L99 None of the above, but in this section
46Mxx **Categorical methods {See also 18—XX.}**
M05 Tensor products
M10 Projective and injective objects
M15 Functors

M99 None of the above, but in this section

46N05 Miscellaneous applications of functional analysis

47—XX OPERATOR THEORY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

47Axx Single linear operators: general theory
A05 Adjoints, conjugates
A10 Spectrum, resolvent, numerical range
A15 Invariant subspaces
A20 Dilations, extensions, compressions
A25 Spectral sets
A30 Norms (inequalities, more than one norm, etc.)
A35 Ergodic theory [See also 28A65.]
A40 Scattering theory [See also 35J10.]
A45 Canonical models for contractions and nonselfadjoint operators
A50 Equations involving linear operators
A55 Perturbation theory
A60 Functional calculus
A65 Structure theory
A70 Eigenfunction expansions, rigged Hilbert spaces
A99 None of the above, but in this section

47Bxx Single linear operators: special classes of operators
B05 Compact operators, Riesz operators
B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, etc.
B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
B20 Subnormal operators, hyponormal operators, etc.
B25 Symmetric and selfadjoint operators (unbounded)
B30 Fredholm operators
B35 Toeplitz operators, Wiener-Hopf operators [For other integral operators, see also 47G05.]
B40 Spectral operators
B44 Dissipative operators
B45 Difference operators
B47 Commutators
B50 Operators on a space with an indefinite metric
B55 Operators on ordered spaces
B99 None of the above, but in this section

47Cxx Single linear operators as elements of algebraic systems
C05 Operators in algebras
C10 Operators in *-algebras
C15 Operators in von Neumann algebras
C99 None of the above, but in this section

47Dxx Algebraic systems of linear operators {For rings and algebras of operators, see 46Kxx, 46Lxx.}
D05 Semigroups of operators [For Markov processes, see 60Jxx.]
D10 Groups of operators
D15 Linear spaces of operators
D20 Convex sets and cones of operators
D99 None of the above, but in this section

47E05 Ordinary differential operators {See also 34B25, 58Fxx.}

47F05 Partial differential operators {See also 35Pxx, 58Gxx.}

47G05 Integral, integro-differential, and pseudodifferential operators {See also 35Sxx, 58Gxx.}

47Hxx Nonlinear operators
H05 Monotone operators
H10 Fixed point theorems
H15 Equations involving nonlinear operators
H99 None of the above, but in this section

49—XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL {See also 34H05, 93Exx.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

49Axx Existence theory for optimal solutions
A05 Free problems in one independent variable
A10 Problems involving ordinary differential equations
A15 Free problems in two or more independent variables
A20 Problems involving partial differential equations
A25 Problems in abstract spaces
A30 Problems involving functional relations other than differential equations
A35 Optimal solutions belonging to restricted classes (bang-bang controls, etc.)
A40 Minimax problems
A50 Topology of solutions, weak and strong minima, semicontinuity, convexity, orientor fields
A99 None of the above, but in this section

49Bxx Necessary conditions and sufficient conditions for optimality
B05 Free problems in one independent variable
B10 Problems involving ordinary differential equations
B15 Optimal solutions belonging to restricted classes
B20 Free problems in two or more independent variables
B25 Problems involving partial differential equations
B30 Problems in abstract spaces
B35 Problems involving functional relations other than differential equations
B40 Minimax problems
B50 Sensitivity of optimal solutions in the presence of perturbations
B99 None of the above, but in this section

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming
C05 Free problems and problems involving ordinary differential equations

C10 Free problems and problems involving partial differential equations
C15 Problems in abstract spaces or involving functional relations other than differential equations
C99 None of the above, but in this section

49Dxx Methods of successive approximations
D05 Methods based on necessary conditions
D10 Methods of steepest descent type
D15 Methods of Newton-Raphson, Galerkin and Ritz types
D20 Methods of relaxation type
D25 Finite difference methods
D30 Other methods, not based on necessary conditions (penalty function, etc.)
D35 Methods of linear programming type
D40 Methods of quadratic programming type
D45 Methods of convex programming type
D99 None of the above, but in this section

49Exx Controllability and geometry of control problems
E05 General dependence on controls
E10 Orientor fields (contingency equations)
E15 Attainable sets, controllability
E20 Interrelations between stability problems and optimization problems
E25 Effect of perturbations on controllability
E30 Relations between controllability and optimal solutions
E99 None of the above, but in this section

49Fxx Manifolds
F05 Exterior differential forms, invariant integrals (Cartan theory) [See also 58A15.]
F10 Minimal surfaces
F15 Morse theory in Hilbert and other spaces [See also 58Exx.]
F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 58A25.]
F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting
F25 Surface area
F99 None of the above, but in this section

49Gxx Variational methods and eigenvalues
G05 Variational approach to eigenvalues
G10 Rayleigh-Ritz methods
G15 Weinstein and Aronszajn methods, intermediate problems
G20 Linear operators in Hilbert spaces
G99 None of the above, but in this section

49H05 Variational principles of physics {See also 70Hxx, 81A09.}

50—XX GEOMETRY {For algebraic geometry, see 14—XX.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

50Axx Foundations
A05 Euclidean
A10 Noneuclidean
A15 Transformation groups
A20 Algebraic characterizations [See also 06A75, 12K05, 16A76, 16A78, 16A80, 17D05, 17E05, 20N10.]
A25 Models [See also 02H15.]
A30 Length, area, volume
A99 None of the above, but in this section

50Bxx Euclidean geometry (including equiform geometry)
B05 Constructions
B10 Metric formulae
B15 Inequalities
B20 Geometry of circles
B25 Euclidean and equiform geometry over fields other than the reals
B30 Regular figures, division of space [See also 20H15.]
B35 Other groups generated by reflections
B99 None of the above, but in this section

50Cxx Other metric geometries
C05 Elliptic and hyperbolic, general
C10 Elliptic and hyperbolic inequalities
C15 Groups generated by elliptic and hyperbolic reflections [See also 20H10.]
C20 Hyperbolic convexity
C25 Other metric geometries

50Dxx Geometries of other transformation groups
D05 Affine geometry, general
D10 Affine geometry, subgroups (centro-affine, equiaffine)
D15 Descriptive geometry
D20 Projective geometry over the reals
D25 Projective geometry over other infinite fields
D30 Projective geometry over finite fields
D35 Projective geometry over combinatorial or nonfield structures
D40 Line geometry
D45 Circle and sphere geometry: Lie, Laguerre, Möbius
D50 Geometries of other space elements
D99 None of the above, but in this section

52—XX CONVEX SETS AND GEOMETRIC INEQUALITIES

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Convex sets without dimension restrictions
A10 Convex sets in 2 dimensions
A15 Convex sets in 3 dimensions
A20 Convex sets in n dimensions
A25 Convex polyhedra
A30 Star-shaped sets
A35 Helly-type theorems
A40 Inequalities and extremum problems
A45 Packing and covering [See also 05B40, 10E30, 50B30.]

A50 Hilbert geometry and other distance geometries
A55 Spherical convexity [See also 50C20.]

53—XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Dxx. For foundational questions of differentiable manifolds, see 58Axx.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

53Axx Classical differential geometry

A05 Curves and surfaces in euclidean space
A10 Minimal surfaces
A15 Affine differential geometry
A20 Projective differential geometry
A25 Differential line geometry
A30 Conformal differential geometry
A35 Noneuclidean differential geometry
A40 Other special differential geometries
A45 Vector and tensor analysis
A50 Spinor analysis
A55 Differential invariants (local theory), geometric objects
A99 None of the above, but in this section

53Bxx Local differential geometry

B05 Affine connections
B10 Projective connections
B15 Other connections
B20 Local Riemannian geometry
B25 Submanifolds
B30 Lorentz metrics, indefinite metrics
B35 Hermitian and Kählerian structures [See also 32Cxx.]
B40 Finsler spaces and generalizations (areal metrics)
B99 None of the above, but in this section

53Cxx Global differential geometry {For related bundle theory, see 55Fxx, 57Dxx.}

C05 Connections
C10 G-structures
C15 Almost complex, contact, symplectic, almost product structures, etc.
C20 Riemannian manifolds, including pinching [See also 58B20.]
C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
C30 Homogeneous manifolds [See also 57F15.]
C35 Symmetric spaces [See also 57F15.]
C40 Submanifolds, isometric imbeddings [See also 57D40.]
C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
C50 Lorentz manifolds, manifolds with indefinite metrics
C55 Hermitian and Kählerian structures [See also 32Cxx.]
C60 Finsler spaces and generalizations (areal metrics) [See also 58B20.]
C65 Integral geometry, differential forms, currents, etc.
C70 Direct methods (G-spaces of Busemann, etc.)
C75 Geometric orders, order geometry
C99 None of the above, but in this section

54—XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Axx.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

54Axx Generalities

A05 Topological spaces and generalizations (closure spaces, etc.)
A10 Change of topology, comparison of topologies
A15 Syntopogeneous structures
A20 Convergence (general theory) and limits
A25 Cardinality properties (discrete subsets, weight, etc.)
A99 None of the above, but in this section

54Bxx Basic constructions

B05 Subspaces
B10 Product spaces
B15 Quotient spaces, decompositions
B17 Adjunction spaces and similar constructions
B20 Hyperspaces
B25 Sums, inverse limits
B99 None of the above, but in this section

54Cxx Maps and general types of spaces defined by maps

C05 Continuous maps
C10 Special maps: open, closed, perfect, almost open, light, etc.
C15 Retraction
C20 Extension
C25 Imbedding
C30 Real-valued functions [See also 26—XX.]
C35 Function spaces [See also 58D15.]
C40 $C(X)$; algebraic techniques (ideals, etc.) [See also 46J10.]
C45 C- and C^*-imbedding
C50 Zero sets, Baire sets and functions [See also 26A21.]
C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties)
C60 Set-valued maps
C65 Selections
C99 None of the above, but in this section

54Dxx Fairly general properties

D05 Connected and locally connected spaces (general aspects)
D10 Separation axioms, $T_0 - T_3$
D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
D20 Covering properties: Lindelöf, (m, n)-compact, paracompact, pointwise paracompact, etc.

D25 "P-minimal" and "P-closed" spaces
D30 Compact spaces and generalizations
D35 Compactifications, etc.
D40 Remainders
D45 Local compactness, σ-compactness
D50 k-spaces
D55 Sequential spaces
D60 Realcompactness and realcompactification
D99 None of the above, but in this section

54Exx Spaces with richer structures
E05 Proximity structures and generalizations
E10 p-maps
E15 Uniform structures and generalizations
E20 Stratifiable spaces, cosmic spaces, etc.
E25 Semimetric spaces
E30 Moore spaces
E35 Metric spaces, metrizability
E40 Isometries, contractions, expansions
E45 Compact (locally compact) metric spaces
E50 Complete metric spaces
E55 Bitopologies
E60 CW-complexes, triangulable spaces
E99 None of the above, but in this section

54Fxx Special properties
F05 Ordered topological spaces, partially ordered spaces [See also 06A45.]
F15 Continua and generalizations
F20 Special types of continua
F25 Peano spaces and generalizations
F30 Cyclic elements
F35 Higher dimensional local connectedness [See also 55Bxx, 55Cxx.]
F40 Compact (locally compact) absolute neighborhood retracts
F45 Dimension theory [See also 55C10.]
F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03.]
F55 Unicoherence, multicoherence
F60 Maps into S_n
F65 Topological characterizations of particular spaces
F99 None of the above, but in this section

54Gxx Peculiar spaces
G05 Extremally disconnected spaces, F-spaces, etc.
G10 P-spaces
G15 Pathological spaces
G20 Counterexamples
G99 None of the above, but in this section

54Hxx Connections with other structures, applications
H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 04A15, 26A21, 28A05.]
H10 Topological representations of algebraic systems [See also 22—XX.]
H15 Transformation groups and semigroups [See also 20Mxx, 22—XX, 57Exx.]
H20 Topological dynamics [See also 28A65, 34C35, 58Fxx.]
H25 Fixed-point and coincidence theorems [See also 47H10, 55C20.]
H99 None of the above, but in this section

54J05 Nonstandard topology

55—XX ALGEBRAIC TOPOLOGY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

55Axx Low-dimensional topology {See also 57Axx.}
A05 Fundamental group, presentations, free differential calculus [See also 20E40.]
A10 Covering spaces, branched coverings
A15 Graphs and map coloring [For other graph theory, see 05Cxx.]
A20 Two-dimensional complexes
A25 Knots and links [For the high-dimensional case, see 57C45.]
A30 Wild knots and surfaces, etc.
A35 Dehn's Lemma, sphere theorem, loop theorem, asphericity
A40 Characterizations of E^3 and S^3 (Poincaré conjecture)
A99 None of the above, but in this section

55Bxx Homology and cohomology theories
B05 Čech types
B10 Singular theory
B15 K-theory [For algebraic K-theory, see 18F25.]
B20 Generalized (extraordinary) homology and cohomology theories, spectra
B25 Homology with local coefficients, equivariant cohomology
B30 Sheaf cohomology [See also 18F20, 32C35, 32L10.]
B35 Other homology theories
B40 Axioms for homology theory and uniqueness theorems
B45 Products and intersections
B99 None of the above, but in this section

55Cxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57A05, 57A10, 57A15.}
C05 Duality
C10 Dimension theory [See also 54F45.]
C15 Absolute neighborhood retracts [See also 54C55.]
C20 Fixed points and coincidences [See also 54H25.]
C25 Degree
C30 Ljusternik-Schnirelman category of a space
C35 Finite groups of transformations (Smith theory)
C99 None of the above, but in this section

55Dxx Homotopy theory {For simple homotopy type, see 57C10.}
D05 Homotopy extension properties, cofibrations
D10 Homotopy equivalences
D15 Classification of homotopy type
D20 Eilenberg-MacLane spaces
D25 Spanier-Whitehead duality
D30 Eckmann-Hilton duality
D35 Loop spaces
D40 Suspensions
D45 H-spaces and duals
D50 Category and cocategory, etc.
D99 None of the above, but in this section

55Exx Homotopy groups
E05 Homotopy groups, general; sets of homotopy classes

E10 Stable homotopy groups
E15 Whitehead products and generalizations
E20 Homotopy groups of wedges, joins, and simple spaces
E25 Hopf invariants
E30 Homotopy groups of triads, n-ads
E35 Operations in homotopy groups
E40 Homotopy groups of spheres
E45 Stable homotopy of spheres
E50 The J-morphism
E55 Cohomotopy groups
E99 None of the above, but in this section

55Fxx Fiber spaces and bundles {See also 18F15.}
F05 Fiber spaces
F10 Fiber bundles
F15 Classification
F20 Spectral sequences and homology of fiber spaces [See also 55Hxx.]
F25 Sphere bundles and vector space bundles
F35 Classifying spaces of groups and H-spaces
F40 Homology of classifying spaces, characteristic classes
F45 Homology and homotopy of BO and BU; Bott periodicity
F50 Stable classes of vector space bundles, K-theory [For algebraic K-theory, see 18F25.]
F55 Fiberings with singularities
F60 Microbundles and block bundles
F65 Generalizations of fiber spaces and bundles
F99 None of the above, but in this section

55Gxx Operations and obstructions
G05 Primary cohomology operations
G10 Steenrod algebra
G15 Symmetric products, cyclic products
G20 Secondary and higher cohomology operations
G25 K-theory operations and generalized cohomology operations
G30 Massey products
G35 Obstruction theory
G36 Extension and compression of mappings
G37 Classification of mappings
G40 Sectioning fiber spaces and bundles
G45 Postnikov systems, k-invariants
G99 None of the above, but in this section

55Hxx Spectral sequences
H05 General
H10 Serre spectral sequences
H15 Adams spectral sequences
H20 Eilenberg-Moore spectral sequences
H25 Generalized cohomology
H99 None of the above, but in this section

55Jxx Applied homological algebra {See also 18Gxx.}
J05 Abstract complexes
J10 Semisimplicial complexes
J15 Chain complexes
J20 Universal coefficient theorems, Bockstein operator
J25 Homology of a product, Künneth formula
J30 Duality
J99 None of the above, but in this section

57—XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

57Axx Topological manifolds
A05 Topology of E_2, 2-manifolds
A10 Topology of E_3, 3-manifolds [See also 55Axx.]
A15 Topology of E_n, n-manifolds ($3 < n < \infty$)
A17 Topology of topological vector spaces
A20 Topology of infinite-dimensional manifolds [See also 58Bxx.]
A30 Engulfing
A35 Imbeddings and immersions
A40 Neighborhoods of submanifolds
A45 Flatness
A50 $S^{n-1} \subset E^n$, Schoenflies problem
A55 Microbundles
A60 Cellularity
A65 Algebraic topology of manifolds
A70 Cobordism
A99 None of the above, but in this section

57Bxx Generalized manifolds {See also 18F15.}
B05 Local properties
B10 Poincaré duality spaces
B99 None of the above, but in this section

57Cxx PL-topology
C05 The general topology of complexes
C10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc.
C15 Triangulating manifolds
C20 Cobordism
C25 Comparison of PL-structures: classification, Hauptvermutung
C30 Engulfing
C35 Imbeddings and immersions
C40 Regular neighborhoods
C45 Knots and links (in high dimensions) [For the low-dimensional case, see 55A25.]
C50 Microbundles and block bundles [See also 55F60.]
C55 Approximations
C99 None of the above, but in this section

57Dxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite dimensional manifolds, see 58Bxx.}
D05 Triangulating
D10 Smoothing
D12 Smooth approximations
D15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)
D20 Characteristic classes
D25 Vector fields, frame fields, etc.
D30 Foliations
D35 Differentiable mappings
D40 Imbeddings and immersions
D45 Singularities of differentiable mappings
D50 Diffeomorphisms
D55 Differentiable structures
D60 Homotopy spheres, Poincaré conjecture
D65 Surgery and handlebodies
D70 Critical points and critical submanifolds
D75 O- and SO-cobordism
D80 h- and s-cobordism
D85 Equivariant cobordism
D90 Other types of cobordism

D95 Realizing cycles by submanifolds
D99 None of the above, but in this section

57Exx Topological transformation groups {See also 20E40, 22—XX, 54H15, 58D05.}
E05 Topological properties of groups of homeomorphisms
E10 Compact groups of homeomorphisms
E15 Compact Lie groups of differentiable transformations
E20 Noncompact Lie groups of transformations
E25 Groups acting on specific manifolds
E30 Discontinuous groups of transformations
E99 None of the above, but in this section

57Fxx Homology and homotopy of topological groups and related structures
F05 Hopf algebras [See also 16A24.]
F10 Homology of Lie groups
F15 Homology of homogeneous spaces of Lie groups
F20 Homotopy groups of topological groups and homogeneous spaces
F25 Homology of H-spaces
F30 Bar and cobar constructions
F35 Applications of Eilenberg-Moore spectral sequences [See also 55F20, 55H20.]
F99 None of the above, but in this section

58—XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS

{For real-analytic and complex manifolds, see 32Cxx; for geometric integration theory, see 49F20, 49F22.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

58Axx General theory of differentiable manifolds
A05 Differentiable manifolds, foundations
A10 Differential forms
A15 Exterior differential systems (Cartan theory) [For variational problems, see 49F05.]
A20 Jets
A25 Currents
A30 Vector distributions (sub-bundles of the tangent bundles)
A99 None of the above, but in this section

58Bxx Infinite dimensional manifolds {See also 57A20.}
B05 Homotopy and topological questions
B10 Differentiable and holomorphic questions
B15 Fredholm structures
B20 Riemannian, Finsler, and other geometric structures
B99 None of the above, but in this section

58Cxx Calculus on manifolds
C05 Real-valued functions
C10 Holomorphic maps
C15 Implicit function theorems
C20 Differentiation theory (Gâteaux, Fréchet, etc.)
C25 Differentiable maps and singularities
C99 None of the above, but in this section

58Dxx Spaces and manifolds of mappings
D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22Exx, 57E05.]
D10 Spaces of imbeddings and immersions
D15 Manifolds of mappings [See also 54C35.]
D99 None of the above, but in this section

58Exx Critical point theory {For the finite dimensional case, see 57D70; for variational problems, see 49F15.}
E05 Abstract theory (Morse theory, Ljusternik-Schnirelman theory, etc.)
E10 Application to theory of geodesics
E15 Application to extremal problems in several variables
E99 None of the above, but in this section

58Fxx Differentiable dynamical systems {For abstract and symbolical topological dynamics, see 28A65, 34C35, 54H20.}
F05 Hamiltonian and other special systems
F10 Stability theory
F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
F20 Periodic points and zeta functions
F99 None of the above, but in this section

58Gxx Differential operators on manifolds
G05 Elliptic complexes [See also 35N15.]
G10 Index theorems and fixed point theorems
G15 Pseudodifferential operators on manifolds
G99 None of the above, but in this section

58H05 Pseudogroups (infinite dimensional Lie groups) and deformations of structures {See also 22E65.}

60—XX PROBABILITY THEORY AND STOCHASTIC PROCESSES

{For additional applications, see 10Kxx, 42A36, 62—XX, 90—XX, 92—XX, 93—XX, 94—XX.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

60A05 Axioms, foundations

60Bxx Probability theory on algebraic and topological structures
B05 Probability measures on topological spaces
B10 Convergence of probability measures, invariance theorems [See also 28A65.]
B15 Probability measures on groups, Fourier transforms, factorization
B99 None of the above, but in this section

60C05 Combinatorial probability

60D05 Geometric probability

60E05 Distributions, characteristic functions

60Fxx Limit theorems
F05 Central limit and other weak theorems
F10 Large deviations
F15 Strong theorems [See also 28A65.]

F20 Zero-one laws
F99 None of the above, but in this section

60Gxx Stochastic processes
G05 Foundations of stochastic processes
G10 Stationary processes
G15 Gaussian processes
G17 Sample path properties
G20 Generalized stochastic processes
G25 Prediction theory [See also 62M10.]
G30 Continuity and singularity of induced measures
G35 Applications (signal detection, filtering, etc.) [See also 94A05.]
G40 Stopping times
G45 Martingale theory
G50 Sums of independent random variables
G99 None of the above, but in this section

60Hxx Stochastic analysis
H05 Stochastic integrals
H10 Stochastic ordinary differential equations [See also 34F05.]
H15 Stochastic partial differential equations
H20 Stochastic integral equations
H99 None of the above, but in this section

60Jxx Markov processes
J05 Markov processes with discrete parameter
J10 Markov chains
J15 Random walk
J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)
J25 Markov processes with continuous parameter
J30 Processes with independent increments
J35 Transition functions, generators and resolvents [See also 47D05.]
J40 Hunt processes
J45 Probabilistic potential theory [See also 31—XX.]
J50 Boundary theory
J55 Local time and additive functionals
J60 Diffusion processes [See also 28A65.]
J65 Brownian motion
J70 Applications of diffusion theory (population genetics, absorption problems, etc.)
J75 Jump processes
J80 Branching processes (Galton-Watson, birth-and-death, etc.)
J85 Applications of branching processes [See also 90Bxx.]
J99 None of the above, but in this section

60Kxx Special processes
K05 Renewal theory
K10 Applications (reliability, demand theory, etc.)
K15 Markov renewal processes, semi-Markov processes
K20 Applications of Markov renewal processes (reliability, queueing networks, etc.)
K25 Queueing theory
K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 60J80.]
K35 Interacting random processes, statistical mechanics type models
K99 None of the above, but in this section

62—XX STATISTICS
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

62Axx Foundations
A05 Invariance and group considerations
A10 The likelihood approach
A15 The Bayesian approach
A99 None of the above, but in this section

62Bxx Sufficiency
B05 Sufficient statistics and fields
B10 Statistical information theory
B15 Comparison of experiments
B20 Measure-theoretic results, etc.
B99 None of the above, but in this section

62Cxx Decision theory {For game theory, see 90Dxx.}
C05 General considerations
C07 Complete class results
C10 Bayesian problems; characterization of Bayes procedures
C15 Admissibility
C25 Compound decision problems
C99 None of the above, but in this section

62D05 Sampling theory, sample surveys

62Exx Distribution theory
E10 Characterization and structure theory
E15 Distribution of statistics
E20 Asymptotic theory
E25 Monte Carlo studies
E99 None of the above, but in this section

62Fxx Parametric inference
F05 Hypothesis testing
F07 Ranking and selection
F10 Estimation
F15 Bayesian inference
F20 Asymptotic efficiency
F25 Tolerance and confidence regions
F99 None of the above, but in this section

62Gxx Nonparametric inference
G05 Estimation
G10 Hypothesis testing
G15 Tolerance and confidence regions
G20 Asymptotic efficiency
G25 Quick and easy methods
G30 Order statistics
G35 Robustness
G99 None of the above, but in this section

62Hxx Multivariate analysis
H05 Characterization and structure theory
H10 Distribution of statistics
H15 Hypothesis testing
H20 Correlation analysis, canonical correlation
H25 Factor analysis and principal components
H30 Classification and discrimination
H99 None of the above, but in this section

62Jxx Linear inference
J05 Regression analysis
J10 Analysis of variance and covariance
J15 Paired and multiple comparisons
J99 None of the above, but in this section

62Kxx Experimental design {See also 05Bxx.}
- K05 Optimal designs
- K10 Block designs
- K15 Factorial designs
- K99 None of the above, but in this section

62Lxx Sequential methods
- L05 Sequential design
- L10 Sequential analysis
- L12 Sequential estimation
- L15 Optimal stopping [See also 60G40.]
- L20 Stochastic approximation
- L99 None of the above, but in this section

62Mxx Inference from stochastic processes
- M05 Markov processes
- M10 Time series, auto-correlation, regression, etc.
- M15 Spectral analysis of time series
- M20 Prediction [See also 60G25.]
- M99 None of the above, but in this section

62Nxx Engineering statistics
- N05 Reliability and life testing
- N10 Quality control [See also 90Bxx.]
- N15 Stochastic differential and difference equations [See also 34F05, 60H10, 93Exx.]
- N99 None of the above, but in this section

62Pxx Applications {See also 82—XX, 90—XX, 92—XX.}
- P05 Actuarial mathematics
- P10 Biometrics
- P15 Psychometrics
- P20 Econometrics
- P25 Sociometrics
- P99 None of the above, but in this section

62Q05 Statistical tables

65—XX NUMERICAL ANALYSIS
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical

65A05 Tables

65Bxx Acceleration of convergence
- B05 Extrapolation to the limit, deferred corrections
- B10 Summation of series
- B15 Euler-MacLaurin formula
- B20 Poisson formula, etc.
- B99 None of the above, but in this section

65Cxx Numerical simulation {See also 68A55.}
- C05 Monte Carlo methods
- C10 Random number generation
- C99 None of the above, but in this section

65Dxx Numerical approximation {Primarily algorithms; for theory, see 41—XX.}
- D05 Interpolation
- D10 Smoothing, curve fitting
- D15 Algorithms for functional approximation
- D20 Computation of special functions, construction of tables
- D25 Numerical differentiation
- D30 Numerical integration, quadrature, cubature, etc.
- D99 None of the above, but in this section

65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30A28.}

65Fxx Numerical linear algebra
- F05 Direct methods for linear systems and matrix inversion
- F10 Iterative methods for linear systems [See also 65N20.]
- F15 Eigenvalues, eigenvectors
- F20 Overdetermined systems, pseudoinverses
- F25 Orthogonalization
- F30 Other matrix algorithms
- F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60.]
- F99 None of the above, but in this section

65G05 Roundoff error

65Hxx Nonlinear algebraic or transcendental equations
- H05 Single equations
- H10 Systems of equations

65J05 Numerical analysis in abstract spaces

65K05 Mathematical programming and optimization techniques {Computational aspects; for algorithms and theory, see 49Exx and 90Cxx.}

65Lxx Ordinary differential equations
- L05 Initial value problems
- L10 Boundary value problems
- L15 Eigenvalue problems
- L99 None of the above, but in this section

65Mxx Partial differential equations, initial value problems
- M05 Derivation of finite difference approximations
- M10 Stability and convergence of difference methods
- M15 Error bounds
- M20 Method of lines
- M25 Method of characteristics
- M30 Improperly posed problems
- M99 None of the above, but in this section

65Nxx Partial differential equations, boundary value problems
- N05 Derivation of finite difference approximations
- N10 Convergence of difference methods
- N15 Error bounds
- N20 Solution of difference equations [See also 65F10.]
- N25 Eigenvalue problems
- N30 Rayleigh-Ritz and Galerkin methods
- N35 Collocation and related methods
- N99 None of the above, but in this section

65P05 Partial differential equations, miscellaneous problems

65Q05 Difference and functional equations, recurrence relations

65R05 Integral and integro-differential equations

65S05 Graphical methods

65T05 Harmonic analysis and synthesis

68—XX COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see section —04 in that area.}
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)

—03 Historical
A05 Programming theory
A10 Algorithms [See also 02E10.]
A15 Symbolic computation
A20 Computational complexity and efficiency
A25 Automata theory [See also 02F10, 18B20, 94A30, 94A35.]
A30 Linguistics, formal languages
A35 Adaptive systems
A40 Theorem proving
A45 Artificial intelligence, pattern recognition
A50 Information retrieval
A55 Simulation [See also 65Cxx.]

70—XX MECHANICS OF PARTICLES AND SYSTEMS
{For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82—XX.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
70A05 Axiomatics
70Bxx Kinematics
B05 Kinematics of a particle
B10 Kinematics of a rigid body
B15 Mechanisms and linkages
B99 None of the above, but in this section
70Cxx Statics
C05 Forces, fields
C10 Potential energy
C99 None of the above, but in this section
70Dxx Dynamics of a particle {See also 70Hxx.}
D05 Newtonian dynamics
D10 Lagrangian dynamics
D99 None of the above, but in this section
70Exx Dynamics of a rigid body
E05 Motion of the gyroscope
E10 Motion of projectiles and rockets
E15 Motion of a general rigid body
E20 Perturbation methods for Euler's equations
E25 Poinsot method
E99 None of the above, but in this section
70Fxx Dynamics of a system of particles
F05 Two-body problem
F10 n-body problem
F15 Celestial mechanics
F20 Holonomic systems
F25 Nonholonomic systems
F30 Impulsive motion
F35 Collisions
F99 None of the above, but in this section
70Gxx General representation of dynamical systems
G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20.]
G10 Generalized coordinates
G15 Space of events
G20 Impulse-energy space
G25 Configuration space
G30 State space
G35 Phase space
G99 None of the above, but in this section
70Hxx Hamiltonian mechanics
H05 Hamilton's equations
H10 Liouville's theorem
H15 Canonical transformations
H20 Hamilton-Jacobi equations
H25 Variational methods
H99 None of the above, but in this section
70Jxx Linear vibration theory
J05 Finite degree of freedom systems
J10 Normal modes of vibrations
J15 Conservative systems
J20 Nonconservative systems
J25 Stability of oscillatory motions
J99 None of the above, but in this section
70Kxx Nonlinear oscillations
K05 Phase plane analysis
K10 Limit cycles
K15 Ljapunov theorems
K20 Stability
K99 None of the above, but in this section
70L05 Random vibrations {See also 93Exx.}
70Mxx Orbital mechanics
M05 Satellite problems
M10 Orbital stability
M99 None of the above, but in this section
70N05 Exterior ballistics
70P05 Variable mass, rockets

73—XX MECHANICS OF SOLIDS
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
73A05 Axiomatics
73Bxx Continuum mechanics {For fluids, see 76Axx.}
B05 Constitutive equations
B10 Isotropic functionals
B15 Rotational groups [See also 22Exx.]
B20 Simple materials
B25 Multipolar stress theory
B30 Thermodynamics of solids [For gases and fluids, see 80—XX.]
B99 None of the above, but in this section
73Cxx Linear elasticity {For the biharmonic equation, see 31B30; for acoustics, see 76Q05.}
C05 Stress functions
C10 Saint-Venant's principle
C15 Uniqueness theorems
C20 Strain energy methods
C25 Thermal stress problems
C30 Anisotropic bodies
C35 Mixed boundary value problems [See also 45F05.]
C99 None of the above, but in this section
73Dxx Wave propagation in solids
D05 Impact and explosion problems [See also 76L05.]
D10 Integral transforms
D15 Dilatational and shear waves
D20 Surface waves

D25 Wave diffraction and dispersion
D99 None of the above, but in this section

73Exx Plasticity
E05 Yield criteria and flow rules
E10 Method of successive approximations
E15 Slip-line theory
E20 Limit analysis
E25 Creep
E99 None of the above, but in this section

73Fxx Viscoelasticity
F05 Creep and relaxation functions
F10 Correspondence principle
F15 Time dependent boundary value problems
F20 Aging of materials
F25 Environmental-dependent materials
F99 None of the above, but in this section

73Gxx Finite deformations
G05 Finite elasticity
G10 Strain energy functions
G15 Finite viscoelasticity
G20 Metal forming problems
G99 None of the above, but in this section

73Hxx Elastic stability
H05 Buckling
H10 Dynamic stability
H99 None of the above, but in this section

73Jxx Aeroelasticity
J05 Interaction of aerodynamics and elasticity
J10 Vibrations, flutter
J15 Divergence
J99 None of the above, but in this section

73Kxx Structural mechanics
K05 Beams, columns
K10 Plates
K15 Membranes, shells
K20 Composite structures
K25 Finite element methods
K99 None of the above, but in this section

73Lxx Theory of shells
L05 Non-euclidean geometry, tensorial methods [See also 53A45.]
L10 Anisotropic shells
L15 Shell dynamics
L99 None of the above, but in this section

73Mxx Fractural mechanics
M05 Brittle fracture, cracks
M10 Fatigue
M15 Ductile fracture
M20 Material instability
M99 None of the above, but in this section

73Nxx Geophysical solid mechanics {See also 86—XX.}
N05 Global dynamics
N10 Earthquake problems
N99 None of the above, but in this section

73Pxx Biomechanics of solids
P05 Mathematical models of biological materials
P10 Mechanics response
P99 None of the above, but in this section

73Q05 Soil mechanics
73R05 Electromagnetic elasticity

73Sxx Micromechanics of solids
S05 Dislocation theory
S99 Other micromechanics

76—XX FLUID MECHANICS {For general continuum mechanics, see 73Bxx.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

76Axx Constitutive equations {See also 35L65.}
A05 Non-Newtonian fluids
A10 Viscoelastic fluids
A99 None of the above, but in this section

76Bxx Incompressible, inviscid fluids, potential theory
B05 Airfoil theory
B10 Jets and cavities, free-streamline theory, water-entry problems, hydrofoil theory
B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction
B20 Ship waves
B25 Solitary and cnoidal waves
B99 None of the above, but in this section

76Cxx Incompressible inviscid fluids, vorticity flows
C05 Vorticity flows
C10 Internal waves
C15 Atmospheric waves
C20 Rossby waves
C99 None of the above, but in this section

76Dxx Incompressible viscous fluids
D05 Navier-Stokes equations [See also 35Q10.]
D10 Boundary-layer theory
D15 Boundary-layer separation and reattachment
D20 Higher-order effects in boundary layers
D25 Wakes and jets
D30 Singular perturbation problems
D99 None of the above, but in this section

76Exx Hydrodynamic stability
E05 Stability of parallel flows
E10 Inertial instability
E15 Convective instability
E20 Instability of geophysical and astrophysical flows
E25 Magnetohydrodynamic and electrohydrodynamic instabilities
E30 Nonlinear effects
E99 None of the above, but in this section

76F05 Turbulence {See also 60Gxx, 60Jxx.}

76Gxx Subsonic flows
G05 Hodograph methods
G10 Kármán-Tsien approximation
G15 Iterative methods
G20 Free-streamline theory
G99 None of the above, but in this section

76H05 Transonic flows, limit lines

76Jxx Supersonic flows
J05 Hodograph methods
J10 Method of characteristics
J99 None of the above, but in this section

76K05 Hypersonic flows
76L05 Shock waves and blast waves {See also 73D05.}
76M05 Nonhomentropic flows of compressible fluids

76N05 **Boundary-layer theory of compressible fluids**
76P05 **Rarefied gas flows, Boltzmann equation {See also 82A05.}**
76Q05 **Hydrodynamic sound, acoustics**
76Rxx **Diffusion and convection {See also 60J60.}**
R05 Forced convection
R10 Free convection
R99 None of the above, but in this section
76S05 **Flows in porous media**
76T05 **Two-phase and multiphase flows**
76U05 **Rotating fluids**
76V05 **Stratified fluids**
76W05 **Magnetohydrodynamics and electrohydrodynamics**
76X05 **Ionized gas flow in electromagnetic fields**
76Y05 **Quantum hydrodynamics and relativistic hydrodynamics {See also 83C55, 85A30.}**
76Zxx **Biological fluid mechanics**
Z05 Physiological flows
Z10 Biopropulsion in water and in air
Z99 None of the above, but in this section

78—XX OPTICS, ELECTROMAGNETIC THEORY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Geometric optics
A10 Physical optics
A15 Electron optics
A20 Space charge waves
A25 Electromagnetic theory
A30 Electro- and magnetostatics
A35 Motion of charged particles
A40 Waves and radiation
A45 Diffraction, scattering [For WKB methods, see also 34E20.]
A50 Antennas, wave-guides
A55 Technical applications
A57 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

80—XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER

{For thermodynamics of solids, see 73B30.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Foundations
A10 Classical thermodynamics
A15 Thermodynamics of mixtures
A20 Heat and mass transfer
A25 Combustion, interior ballistics
A30 Chemical kinetics
A35 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

81—XX QUANTUM MECHANICS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A06 Relativistic theory
A09 Selfadjoint operator theory in quantum mechanics, essential selfadjointness of the Hamiltonian
A10 Perturbation theory
A12 Logical foundations of quantum mechanics
A15 Feynman integrals and graphs, applications of algebraic topology and algebraic geometry to these problems
A17 Axiomatic quantum field theory; operator algebras
A18 Constructive quantum field theory; models of quantum fields
A19 Renormalization theory
A20 Commutation relations
A24 Bethe-Salpeter equation
A27 Current algebra
A30 Broken symmetries
A33 Covariant wave equations
A36 Strong interaction
A39 Electromagnetic interaction
A42 Weak interaction
A45 Potential scattering theory [For WKB methods, see also 34E20.]
A48 S-matrix theory and other scattering theory
A51 Dispersion theory
A54 Applications of group theory to elementary particles
A57 Other elementary particle theory
A60 Applications of group theory to nuclear physics
A63 Other nuclear physics
A66 Applications of group theory to atomic physics
A69 Other atomic physics
A72 Applications of group theory to molecular physics
A75 Other molecular physics
A78 General group representation motivated by physics but not covered by 81A54, 81A60, 81A66, 81A72, representations of concrete classical groups such as $SL(n, C)$, $U(p, q)$, etc.
A81 Quantum mechanics of many-body systems
A84 Superconductivity and superfluidity

A87 Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)

82—XX STATISTICAL PHYSICS, STRUCTURE OF MATTER

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Mathematical general statistical mechanics
A15 Mathematical quantum statistical mechanics
A25 Phase transitions
A30 Statistical thermodynamics [See also 80—XX.]
A35 Irreversible thermodynamics
A40 Kinetic theory of gases
A45 Plasma
A50 Liquids
A55 Solids
A60 Crystals
A65 Metals
A70 Transport processes [See also 85A25.]
A75 Nuclear reactor theory
A77 Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)

83—XX RELATIVITY

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
83A05 Special relativity
83B05 Observational and experimental questions
83Cxx General relativity
C05 Einstein's equations
C10 Equations of motion
C15 Closed form solutions
C20 Classes of solutions
C25 Approximation procedures, weak fields
C30 Asymptotic procedures (radiation, news functions, etc.)
C35 Gravitational waves
C40 Groups of motions, invariance groups, observation laws, etc.
C45 Quantization of the gravitational field
C50 Electromagnetic fields
C55 Hydrodynamics [See also 76Y05.]
C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's
83Exx Unified field theories
E05 Geometrodynamics
E10 Asymmetric field theories
E15 Five- and higher-dimensional theories
E99 None of the above, but in this section
83F05 Cosmology

85—XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Galactic and stellar dynamics
A10 Astronautics
A15 Stellar structure
A20 Stellar atmospheres
A25 Radiative transfer
A30 Hydrodynamic and hydromagnetic problems [See also 76Y05.]
A35 Statistical astronomy
A40 Cosmology [For relativistic cosmology, see 83F05.]
A45 Radio astronomy

86—XX GEOPHYSICS {See also 73Nxx, 76U05, 76V05.}

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Hydrology, hydrography, oceanography
A10 Meteorology
A15 Seismology
A20 Potentials, prospecting
A25 Geo-electricity and geomagnetism
A30 Geodesy, mapping problems
A35 Atmospheric physics

90—XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

90Axx Mathematical economics {For econometrics, see 62P20.}
- A05 Decision theory [See also 62Cxx.]
- A10 Utility theory
- A15 Economic models
- A20 Economic time series analysis [See also 62M10.]
- A99 None of the above, but in this section

90Bxx Operations research and management science
- B05 Logistics, inventory, storage
- B10 Flows in networks, deterministic
- B15 Flows in networks, probabilistic
- B20 Highway traffic
- B25 Reliability and maintenance [See also 60K20, 62N05.]
- B30 Production theory
- B35 Scheduling theory
- B40 Search theory
- B99 None of the above, but in this section

90Cxx Mathematical programming {For dynamic programming, see 49Cxx; for papers emphasizing calculus of variations or involving abstract spaces, see 49Dxx.}
- C05 Linear programming
- C10 Integer programming
- C15 Stochastic programming
- C20 Quadratic programming
- C25 Convex programming
- C30 Nonlinear programming
- C35 Network programming, programming in networks
- C40 Markov programming
- C45 Markov renewal programming
- C50 Applications of mathematical programming
- C99 None of the above, but in this section

90Dxx Game theory
- D05 2-person zero-sum games
- D10 *n*-person games, noncooperative
- D12 *n*-person games, cooperative, solution concepts
- D13 Games for a continuum of players
- D15 Multistage games, stochastic [See also 93E05.]
- D20 Multistage games, recursive
- D25 Differential games
- D30 Utility theory [See also 90A10.]
- D35 Decision theory [See also 62Cxx, 90A05.]
- D40 Game theory models [See also 65Cxx, 68A55.]
- D45 Applications of game theory
- D99 None of the above, but in this section

92—XX BIOLOGY AND BEHAVIORAL SCIENCES
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Biology [See also 73Pxx, 76Zxx.]
- A10 Genetics
- A15 Population dynamics, epidemiology
- A20 Sociology
- A25 Psychology

93—XX SYSTEMS, CONTROL {For optimal control (nonstochastic), see 49—XX.}
- —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- —01 Elementary exposition (collegiate level)
- —02 Advanced exposition (research surveys, etc.)
- —03 Historical
- —04 Explicit machine computation and programs (not the theory of computation or programming)

93Axx General
- A05 Axiomatic system theory
- A10 General systems
- A15 Large scale systems (approximation techniques)
- A99 None of the above, but in this section

93Bxx Controllability, observability, and system structure
- B05 Controllability, observability, definitions and criteria
- B10 Canonical structure
- B15 Realizability of systems from input-output data
- B20 Minimal systems representations
- B25 Algebraic theory of time-invariant systems
- B30 System identification
- B35 Sensitivity
- B99 None of the above, but in this section

93Cxx Control systems, guided systems
- C05 Linear
- C10 Nonlinear
- C15 Systems governed by ordinary differential equations
- C20 Systems governed by partial differential equations
- C22 Systems governed by integral equations
- C25 Systems in abstract spaces
- C30 Systems governed by functional relations other than differential or integral equations
- C40 Adaptive
- C45 Time-invariant
- C50 Time-dependent
- C55 Discrete-time
- C60 Continuous-time
- C99 None of the above, but in this section

93Dxx Stability
- D05 Ljapunov stability
- D10 Popov-type stability of feedback systems
- D15 Stabilization of systems by feedback
- D99 None of the above, but in this section

93Exx Stochastic systems and control
- E05 Stochastic games, stochastic differential games
- E10 Estimation problems (filtering, prediction, data smoothing, system identification)
- E15 Stochastic stability
- E20 Optimal stochastic control (continuous parameter)

E25 Computational methods
E99 None of the above, but in this section

94—XX INFORMATION AND COMMUNICATION, CIRCUITS, AUTOMATA {For papers in pattern recognition, linguistics and formal languages, see 68A30, 68A45.}
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
A05 Communication theory [See also 60J30.]
A10 Coding theory
A15 Information theory [See also 62B10.]
A20 Circuits, networks; applications of graph theory and Boolean algebra
A25 Sequential machines
A30 Automata, general [See also 02F10, 18B20, 68A25.]
A35 Probabilistic automata

96—XX MATHEMATICAL EDUCATION, ELEMENTARY
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—03 Historical
96Axx Curriculum development
A05 Arithmetic
A10 Algebra
A15 Geometry
A99 None of the above, but in this section
96Bxx Instructional techniques
B05 Individual differences
B10 Discovery method
B15 Laboratory method
B20 Computer assisted instruction
B25 Programmed materials
B30 Manipulative materials (Cuisinaire rods, etc.)
B99 None of the above, but in this section
96C05 Testing
96D05 Enrichment
96E05 Superior students
96F05 Slow learners
96G05 Psychological studies
96H05 Teacher training

97—XX MATHEMATICAL EDUCATION, SECONDARY
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—03 Historical
97Axx Curriculum development
A05 Arithmetic
A10 Algebra
A15 Geometry
A20 Calculus and analysis
A25 Probability and statistics
A30 Computer mathematics and numerical analysis
A35 Applied mathematics
A99 None of the above, but in this section
97Bxx Instructional techniques
B05 Individual differences
B10 Discovery method
B15 Laboratory method
B20 Computer assisted instruction
B25 Programmed materials
B30 Media and learning aids
B99 None of the above, but in this section
97C05 Testing
97D05 Enrichment
97E05 Superior students
97F05 Slow learners
97G05 Psychological studies
97H05 Teacher training

98—XX MATHEMATICAL EDUCATION, COLLEGIATE (including two-year college)
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—03 Historical
98Axx Curriculum development
A05 Arithmetic
A10 Algebra
A15 Geometry
A20 Calculus and analysis
A25 Probability and statistics
A30 Computer mathematics and numerical analysis
A35 Applied mathematics
A99 None of the above, but in this section
98Bxx Instructional techniques
B05 Individual differences
B10 Discovery method
B15 Laboratory method
B20 Computer assisted instruction
B25 Programmed materials
B30 Media and learning aids
B99 None of the above, but in this section
98C05 Testing
98D05 Enrichment
98E05 Superior students
98F05 Slow learners
98G05 Psychological studies
98H05 Teacher training

69. GENERAL APPLIED MATHEMATICS

00 General

70. MECHANICS OF PARTICLES AND SYSTEMS

00 General
01 History and biography
10 Theory of numbers
15 Linear and multilinear algebra, matrix theory
22 Topological groups and Lie theory
30 Functions of a complex variable
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
41 Approximations and expansions
45 Integral equations
46 Functional analysis
49 Calculus of variations, optimal control
50 Geometry
53 Differential geometry
58 Global analysis, analysis on manifolds
60 Probability
65 Numerical methods

73. ELASTICITY, PLASTICITY

00 General
01 History and biography
20 Group theory and generalizations
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
41 Approximations and expansions
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
53 Differential geometry
60 Probability
62 Statistics
65 Numerical methods

76. FLUID MECHANICS, ACOUSTICS

00 General
15 Linear and multilinear algebra, matrix theory
30 Functions of a complex variable
31 Potential theory
34 Ordinary differential equations
35 Partial differential equations
41 Approximations and expansions
45 Integral equations
47 Operator theory
49 Calculus of variations, optimal control
53 Differential geometry
58 Global analysis, analysis on manifolds
60 Probability
62 Statistics
65 Numerical methods

78. OPTICS ,ELECTROMAGNETIC THEORY

00 General
01 History and biography
30 Functions of a complex variable
31 Potential theory
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
41 Approximations and expansions
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
53 Differential geometry
60 Probability
65 Numerical methods

80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER

00 General
30 Functions of a complex variable
34 Ordinary differential equations
35 Partial differential equations
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
53 Differential geometry
58 Global analysis, analysis on manifolds
60 Probability
65 Numerical methods

81. QUANTUM MECHANICS

00 General
01 History and biography
02 Logic and foundations
04 Set theory
05 Combinatorial theory, graph theory
06 Order, lattices, ordered algebraic structures
15 Linear and multilinear algebra matrix theory
17 Non-associative rings and algebras
20 Group theory and generalizations
22 Topological groups and Lie theory
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations
41 Approximations and expansions
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
53 Differential geometry
57 Topology and geometry of manifolds
58 Global analysis, analysis on manifolds
60 Probability
62 Statistics
65 Numerical methods

82. STATISTICAL PHYSICS, STRUCTURE OF MATTER

00 General
01 History and biography
02 Logic and foundations
05 Combinatorial theory, graph theory
15 Linear and multilinear algebra matrix theory
20 Group theory and generalizations
22 Topological groups and Lie theory
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations
40 Sequences, series, summability
42 Fourier analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
50 Geometry
53 Differential geometry
58 Global analysis, analysis on manifolds
60 Probability
62 Statistics
65 Numerical methods

83. RELATIVITY

00 General
01 History and biography
20 Group theory and generalizations
22 Topological groups and Lie theory
35 Partial differential equations
41 Approximations and expansions
46 Functional analysis
47 Operator theory
49 Calculus of variations, optimal control
50 Geometry
52 Convex sets and geometric inequalities
53 Differential geometry
54 General topology
57 Topology and geometry of manifolds
58 Global analysis, analysis on manifolds
60 Probability

85. ASTRONOMY AND ASTROPHYSICS

00 General
34 Ordinary differential equations
35 Partial differential equations
41 Approximations and expansions
44 Integral transforms, operational calculus
45 Integral equations
53 Differential geometry
60 Probability
62 Statistics
65 Numerical methods

86. GEOPHYSICS

01 History and biography
30 Functions of a complex variable
31 Potential theory
35 Partial differential equations
41 Approximations and expansions
45 Integral equations
50 Geometry
53 Differential geometry
60 Probability
62 Statistics
65 Numerical methods

SUBJECT INDEX

This index is arranged in accordance with the classification scheme described on p. 2161. Only those headings under which there are entries are reproduced below.

References are to review numbers; an Errata Section may be found on pp. 2363 - 2367 below. Russian authors are listed under the transliteration spelling of Russian used by Mathematical Reviews (see table on p. 2369). Surnames consisting of more than one part (e.g., von Humboldt, de Branges, etc.) are listed under the first capital letter.

Each review is listed under each of the classification numbers that have been assigned to it; secondary classifications are indicated by the review number's being in parentheses. Each review is also listed under each author; only one author is given in each entry but the fact of multiple authorship is indicated by *et al.* following the name of the author listed. The names of persons associated with a reviewed item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are given in parentheses. Items without indicated authors are listed alphabetically, in each section, following the items with authors. An asterisk (*) preceding a review number indicates that the item in question is a book.

00–XX GENERAL

00-02 *Advanced exposition (research surveys, etc.)*

Galbură, Gh. *1

00-06 *Collections of papers; proceedings of conferences*

(Velkovrh, Ciril) *7148,*7149
Publications:
Department of Mathematics (Inst. Math., Phys. and Mech., Univ. Ljubljana, Ljubljana), IV (1970) *7148
Department of Mathematics (Inst. Math., Phys. and Mech., Univ. Ljubljana, Ljubljana), VII (1972-1973) *7149

00A05 *General mathematics*

Andronov, I. K. *9899
Baranenkov, G.; et al. *2370
Berry, Daniel M.; et al. (2566)
(Birkhoff, G.) *2371
Birnbaum, Heinz; et al. *9900
Delorme, Charles; et al. *2371
Demidovič, B. P.; et al. *2370
Denkmann, Norbert *9900
Dieudonné, Jean 12412
Efimenko, V.; et al. *2370
Ernest, John 2372
Frolov, S.; et al. *2370
Gladkiĭ, A. V. (*14455b)
Grekova, I. (1745)
Griffiths, H. B.; et al. *4878
(Hérault, Daniel) (*14455b)
Hilton, P. J.; et al. *4878
Honsberger, Ross *7150
Janpol'skiĭ, A. R.; et al. *2370
Kochendörffer, R. *4879
Kogan, S. M.; et al. *2370
Lavit, Christine; et al. *2371
Lunc, G. L.; et al. *2370
(Mac Lane, S.) *2371
(Matveev, N. M.) *9899
Meschkowski, Herbert *4880,*4881
Mézard, Alain; et al. *2371
Mitchell, A. Richard; et al. *2373
Mitchell, Roger W.; et al. *2373
Poršneva, E. F.; et al. *2370
Raoult, Jean-Claude; et al. *2371
Rappaport, Leon 7151
Rvačov, V. L. (*1747)
Šogtak, R. Ja.; et al. *2370
Syčeva, E. P.; et al. *2370
(Wode, Dieter) *4878
Yavne, Moshe; et al. (2566)
Mathematical foundations of computer science 1975 (Fourth Sympos., Marianské Lázně, 1975) (71)
Scientists at work (Festschrift in honour of Herman Wold on the occasion of his 60th birthday) 7151

00A10 *Collection of papers: Proceedings of conferences of general interest, translation volumes, etc.* [*See also* 01A75.]

(Aleksandrov, P. S.) *9904
(Allahverdiev, Dž. E.) *4887
(Babaev, D. A.) *4887
(Bakel'man, I. Ja.) *9913
(Bellinson, A. A.) 12413
(Birman, M. Š.) *12423,*12424
(Boerner, Hermann) *7154
(Bompiani, Enrico) *9905
(Browder, Felix B.) *7158
(Butcher, J. C.) *7160
(Čogošvili, G. S.) *4883
(Copernicus, Nicolaus) *12414
Čunihin, S. A.; et al. 2
(Faddeev, L. D.) *12419
(Flores, Jorge) *4885
(Forder, H. G.) *7160
(Franklin, Stanley P.) *9918
(Gamkrelidze, R. V.) *9,*11,*13,*4882
(Graffi, Dario) *9907
(Gromova, P. A.) *12413
(Hellwig, Zdzisław) *12415
(Jones, Robert T.) 12422
(Kastler, D.) *9902
(Kobyšev, A. A.) *2378
Konarzewska-Gubała, Ewa 9901
Kravčuk, M. I.; et al. 2
(Kullman, David) 12422
(Lavrent'ev, M. A.) *9909
(Levinson, Norman) *9908
(Ligh, Steve) *12422
(Lord, Graham) 12422
(Ludwig, Donald) *12426
(Mahmudov, Ju. A.) *4886
(Mandžavidze, G. F.) *9903
(Maslov, K. V.) *21
(Mateescu, Cristea) *9910
(Meerov, M. V.) *2375
(Mihaĭlov, A. I.) *9914
(Mitrinović, D. S.) *7155
(Moshinsky, Elena) *4885
(Moshinsky, Marcos) *4885
(Musaev, S. R.) *4887
(Mushelišvili, N. I.) *9903
(Neal, Larry) 12422
(Neĭmark, Ju. I.) *9917
(Nivat, Maurice) *12421
(Novaro, Octavio) *4885
(Novožilov, V. V.) *12425
(Olver, Frank W. J.) *12426
(Pawley, Richard G.) 12422
(Peterson, Bruce) 12422
(Petrovskiĭ, I. G.) *7161
(Rabotnov, Ju. N.) *12425
(Sandoval Vallarta, Manuel) *4885
(Satō, Isuke) *10
(Sedov, L. I.) *12425
Šemetkov, L. A.; et al. 2
(Serre, Jean-Pierre) *7156
(Širinov, K. F.) *4887
(Smirnov, V. I.) *22
(Souriau, Jean-Marie) *12420
(Steller, E. T.) 12422
(Tapley, B. D. *7157
(Thomas, Barbara V. Smith) *9918
Thompson, H. R. *7152
(Todd, Aaron R.) 12422
(Urabe, Minoru) *9911
(Usiskin, Zalman) 12422
(Vagner, V. V.) *4888
(Viennot, Gérard) *12421
(Vinogradov, I. M.) *6
(Wigner, E. P.) *4885
(Zverkin, A. N.) *12413
Abstracts of the Scientific Conference of the Department of Physics, Mathematics and Natural Sciences, Ninth (Patrice Lumumba Friendship of Nations Univ., Moscow, 1973) *12413
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 *3
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 *4
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 *5
Algebra *4888
Algebra. Topology. Geometry, Vol. 12 *9
Algebra. Topology. Geometry, Vol. 13 *4882
Algèbre *3
Algorithms *12421
All-Union Algebra Colloquium, Thirteenth (Gomel, 1975) 2
All-Union Topology Conference, Sixth (Tbilisi, 1972), Abstracts *4883
Analyse *4
Annual IEEE Symposium on Switching and Automata Theory, 14th (Univ. Iowa, Iowa City, Iowa, 1973) *4884
Annual Spring Topology Conference, Ninth (Memphis State Univ., Memphis, Tenn., 1975) *9918
Applied mathematics *4887
Arbeiten aus Anlaß des 70. Geburtstages von Hermann Boerner *7154
Army Numerical Analysis and Computers Conference (St. Louis, Mo., 1975) *7159
Army Numerical Analysis and Computers Conference (Research Triangle Park, N. C., 1976) *9916
Automata theory *4884
Bibliography: Information science *9914
Birthday:
Aleksandrov, P. S. (80th) *9904
Boerner, Hermann (70th) *7154
Graffi, Dario (70th) *9907
Hellwig, Zdzisław (50th) *12415
Lavrent'ev, M. A. (75th) *9909
Mateescu, Cristea (80th) *9910
Novožilov, V. V. (60th) *12425
C^*-algebras and their applications to statistical mechanics and quantum field theory *9902
Ceremonial Scientific Session dedicated to Nicolaus Copernicus, 1972 *12414
Collection:
Aleksandrov, P. S. *9904
Boerner, Hermann *7154
Bompiani, Enrico *9905
Forder, H. G. *7160
Graffi, Dario *9907
Hellwig, Zdzisław (50th) *12415
Lavrent'ev, M. A. *9909
Levinson, Norman *9908
Mateescu, Cristea *9910
Mitrinović, D. S. *7155
Moshinsky, Marcos *4885
Petrovskiĭ, I. G. *7161
Satō, Isuke *10
Serre, Jean-Pierre, Part II *7156
Urabe, Minoru *9911
Equations of mathematical physics, 6 *9903
Complex systems *2378
Computer technology *21
Conference on Differential Equations and Applications (Ruse, 1975) *9912
Conference of the Lithuanian Mathematical Society, Sixteenth (Šiauliai, 1975) 2374
Conference on Questions of Mathematics, Algebra and Geometry (Novosibirsk. Ped. Inst., Novosibirsk, 1973) *24
Congrès International des Mathématiciens, Seizième (Nice, 1970) *3-*5

00A10 *Continued*

Control of multivariable systems *2375
Control theory *12416-*12418
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. I *12416
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. II *12417
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. III *12418
Convegno sulla Teoria Matematica dell'Elettromagnetismo (INDAM, Roma, 1974) 2379
Convegno sulle Trasformazioni Quasiconformi e Questioni Connesse (INDAM, Roma, 1974) 2379
Current problems in mathematics, Vol. 3 *11
Cybernetics *4886,*4887,*9917
Differential equations *22,*9912,*12424
Differential geometry, Lie groups and mechanics, II *12419
Dynamics *7157
Elettromagnetismo 2379
Esquisses mathématiques, No. 24 *12
Functional analysis *12416-*12418
Géométrie *4
Géométrie symplectique et physique mathématique (Colloq. Internat. C.N.R.S., Aix-en-Provence, 1974) *12420
Geometry *9,*4882
Geometry and topology, No. 2 *9913
Gravitation *2380
Hilbert problems *7158
IEEE Symposium on Switching and Automata Theory, 14th Annual (Univ. Iowa, Iowa City, Iowa, 1973) *4884
INDAM, Roma, Convegno sulla Teoria Matematica dell'Elettromagnetismo (Febbraio, 1974) 2379
INDAM, Roma, Convegno sulle Trasformazioni Quasiconformi e Questioni Connesse (Marzo, 1974) 2379
Information science, Vol. 1 *9914
Integral and differential operators *22
International Congress of Mathematicians, Sixteenth (Nice, 1970) *3-*6
International Congress of Mathématiciens (Nice, 1970), Papers of Soviet mathematicians *6
International Congress of Mathematicians, Seventeenth (Vancouver, B. C., 1974) *7-*8
International School of Physics "Enrico Fermi", Course LX *9902
Itogi Nauki i Tekhniki *9,*11,*13,*4882,*9914
Journées algorithmiques (École Norm. Sup., Paris, 1975) *12421
Latvian mathematical yearbook, 17 *2376
Lie groups *12419
Lithuanian Mathematical Society, Sixteenth (Šiauliai, 1975) 2374
Logique *3
Long-time predictions in dynamics (Proc. NATO Advanced Study Inst., Cortina d'Ampezzo, 1975) *7157
Mathematical analysis, Vol. 12, Part 1 *13
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) *7158
Mathematical physics *9903
Mathematical theory of electromagnetism 2379
Mathematics: Periodical collection of translations of foreign articles, Vol. 16, no. 3 *14
Mathematics: Periodical collection of translations of foreign articles, Vol. 16, no. 4 *15
Mathematics: Periodical collection of translations of foreign articles, Vol. 16, no. 5 *16
Mathematics: Periodical collection of translations of foreign articles, Vol. 17, no. 1 *17
Mathematics: Periodical collection of translations of foreign articles, Vol. 17, no. 2 *18
Mathematics: Periodical collection of translations of foreign articles, Vol. 17 (1973), no. 4 *9915
Mathematics: Periodical collection of translations of foreign articles, Vol. 18 (1974), no. 1 *19
Mathematics: Periodical collection of translations of foreign articles, Vol. 18 (1974), no. 2 *20
Mathematische Physik *12427-*12429
Mechanics *12419
Mechanics of a deformable solid *12425
Moscow Mathematical Society *7161
Multivariable systems *2375
NATO Advanced Study Institute (Cortina d'Ampezzo, 1975) *7157
New Zealand Mathematics Colloquium, Ninth (Auckland, 1974) *2377
New Zealand Mathematics Colloquium, Tenth (Otaga Univ., Dunedin, 1975), Abstracts of papers *7153
Notes and comments from Math. Mag. 12422
Numerical analysis and computers *7159,*9916
Numerical analysis, and statistical models of complex systems, Part II *2378
Numerical mathematics and computer technology, No. V *21
Oscillations *9917
Physics, mathematical *12420,*12427-*12429
Physique mathématique *12420
Problems:
Mathematical analysis, No. 4 *22
Mathematical physics, No. 7 *12423
Mathematical physics, No. 8 *12424
Mechanics of a solid deformable body *12425
Proceedings of the Army Numerical Analysis and Computers Conference, 1975 (St. Louis, Mo., 1975) *7159
Proceedings of the Army Numerical Analysis and Computers Conference, 1976 (Research Triangle Park, N. C., 1976) *9916
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 *7
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 *8
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) *23
Quantum field theory *9902
Quasiconformal transformations 2379
Questions on engineering cybernetics *4886
Questions of mathematical cybernetics and applied mathematics, No. 1 *4887
Questions of mathematics, algebra and geometry (Abstracts of Papers of a Conference, Novosibirsk. Ped. Inst., Novosibirsk, 1973) *24
Relativity *2380
Scientific conference *12413
Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) *23
Special functions and wave propagation *12426
Spectral theory *12423,*12424
Spectrum of mathematics (Essays presented to H. G. Forder) *7160
Statistical mechanics *9902
Statistical models *2378
Studies in algebra, No. 4 *4888
Studies in applied mathematics, 6 *12426
Switching and automata theory *4884
Symposia Mathematica, Vol. XVIII 2379
Symposium in Pure Mathematics (Northern Illinois Univ., De Kalb, Ill., 1974) *7158
Symposium on Relativity and Gravitation (Brno, 1975) *2380
Symposium on Special Functions (SIAM National Meeting, Washington, D. C., 1969) *12426
Symposium on Switching and Automata Theory, 14th Annual IEEE (Univ. Iowa, Iowa City, Iowa, 1973) *4884
Symposium on Wave Propagation (SIAM National Meeting, Washington, D. C., 1969) *12426
Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 1 *12427
Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 2 *12428
Tagung über Probleme und Methoden der Mathematischen Physik, 5. (Karl-Marx-Stadt, 1975), Heft 3 *12429
Teoria matematica dell'elettromagnetismo 2379
Terminology of information science *9914
Theory of functions *12423
Theory of oscillations, applied mathematics and cybernetics, No. 1 *9917
Topologie *4
Topology *9,*4882,*4883,*9913
Topology (Proc. Ninth Annual Spring Topology Conf., Memphis State Univ., Memphis, Tenn., 1975) *9918
Transactions of the Moscow Mathematical Society *7161
Translations *14-*18,*9915
Trasformazioni quasiconformi 2379
Wave propagation *12423,*12424,*12426

00A15 *Pre-Greek, Babylonian, Egyptian*

Andrisani, Dominick, II; et al. (2257)
Asher, Robert B.; et al. (2257)
Bakker, T. (11578)
(Butzer, P. L.) *7162
Daley, D. J.; et al. (11422)
Dang, N. D. P.; et al. (1547)
Davis, Constance (*410)
Dorato, Peter; et al. (2257)
Gindev, E. (12188)
Lancaster, H. O. (11579-11583)
Milne, R. K.; et al. (11422)
Moran, P. A. P. (11584)
Norden, R. H. (00A15)
Piessens, R.; et al. (1547)
(Stark, E. L.) *7162
Bibliography:
Adaptive control systems (2257)
General relativity and gravitation (6840-6844)
German dissertations (1961-1970) *7162
Groups with two generators (*410)
Laplace transform inversion (1547)
Maximum likelihood estimation (11588)
Point processes (11422)
Reliability, Bulgarian (12188)
Statistical bibliographies (11579-11583)
Statistics (11584)
Statistics teaching (11578)
Bulletin GRG, No. 29 (6840)
Bulletin GRG, No. 30 (6841)
Bulletin GRG, No. 31 (6842)
Bulletin GRG, No. 32 (6843)
Bulletin GRG, No. 33 (6844)
Collection: Adaptive systems (2257)
Dissertationen in Mathematik an den Hochschulen der Bundesrepublik Deutschland in der Zeit von 1961 bis 1970 *7162
Indexes:
Acta Arith., Tomes XVI-XXX (1969-1976) 4889
Comm. Math. Phys., Vol. 1-50 (1965-1976) 25

00A20 *Greek*

(Amosov, N. M.) *9919,*9920
(Artemenko, I. A.) *9919,*9920
(Bakaev, A. A.) *9919,*9920
Bartsch, Hans-Jochen *12431
(Boratyn, Mieczysław) *12430
(Głowacka, Elżbieta) *12430
(Gluškov, V. M.) *9919,*9920
(Ivanov, V. V.) *9919,*9920
(Januszkiewicz, Janina) *12430
(Juščenko, K. L.) *9919,*9920
(Kalužnin, L. A.) *9919,*9920
(Koroljuk, V. S.) *9919,*9920
(Kovalevskiĭ, V.A.) *9919,*9920
(Kratko, M. I.) *9919,*9920
(Kuhtenko, D. I.) *9919,*9920
(Kuncevič, V. M.) *9919,*9920

00A20 *Continued*

(Malinovskiĭ, B. N.) *9919,*9920
(Martin, Maria) *12430
(Mihalevič, V. S.) *9919,*9920
(Pohodzilo, P. V.) *9919,*9920
(Pšenicnyĭ, B. N.) *9919,*9920
(Puhov, G. E.) *9919,*9920
(Rabinovič, Z. L.) *9919,*9920
(Sobecka, Zofia) *12430
(Szarski, Jan) *12430
(Timofeev, B. B.) *9919,*9920
Cybernetics encyclopedia, Vol. 1 *9919
Cybernetics encyclopedia, Vol. 2 *9920
Dictionaries: Polish-Russian *12430
Encyclopedias: Cybernetics *9919,*9920

00A25 *Methodology and philosophy of mathematics*

Arndt, Ole; et al. *12432
Castonguay, Charles (*2413)
Hájek, Petr (71)
Jensen, Finn V.; et al. *12432
Klimkiewicz, Wojciech *12433
Koĭt, M. (1723)
(Leibniz, Gottfried Wilhelm) *7164,*7165)
Lĭcis, N. A. *12434
Ludwig, Klaus 26
Onicescu, Octav *12435
(Parsin, A. N.) (43)
Paul, Siegfried 4890
Riedrich, Thomas (2382)
Sicha, Jeffrey *9921
Spencer Brown, G. *4892
Vinner, Shlomo 4891
Weyl, H. (43)
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band IV (*7164)
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band V (*7165)
Internationaler Leibniz-Kongress (Hannover, 1966) (*7164,*7165)
Logical and philosophical foundations of probability *7163
Probability *7163
Studia Leibnitiana Supplementa, Vol. IV (*7164)
Studia Leibnitiana Supplementa, Vol. V (*7165)

01–XX HISTORY AND BIOGRAPHY

01-06 *Collections of papers; proceedings of conferences*

(Leibniz, Gottfried Wilhelm) *7164,*7165
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band IV *7164
Akten des Internationalen Leibniz-Kongresses (Hannover, 1966), Band V *7165
Internationaler Leibniz-Kongress (Hannover, 1966) *7164,*7165
Studia Leibnitiana Supplementa, Vol. IV *7164
Studia Leibnitiana Supplementa, Vol. V *7165

01A20 *Greek*

Bašmakova, I. G. (*2584)
(Diophantus of Alexandria) (*2584)
McCabe, Robert L. 4893

01A25 *Far East*

Bajpai, S. D. 9922
Hasegawa, Tokuhei; et al. 4894a-b
Libbrecht, U. 9923
Yamaki, Jusuke 4895a-d
Yamaki, Jusuke; et al. 4894a-b

01A30 *Islam*

Abrarova, M. A. 12436
Blanpied, William A. 7166
(al-Fārābi, Abū Naṣr Muḥammad ibn Muḥammad ibn Tarkhān) 7167
(Jai Singh, Sawai, II) 7166
(al-Karajī, Abū Bakr Muḥammad ibn al-Ḥusain) 12436
Muzafarova, H. R. 9924
Šaĭmuhambetova, G. 7167
(as-Shīrazī, Maḥmud ibn Mas'ud Kutb ad-Dīn) 9924

01A35 *Medieval*

(Grant Edward) *12437
(Kohlenberger, Helmut) (*7188)
(Oresme, Nicole) *12437
Pinborg, Jan (*7188)
Nicole Oresme and the kinematics of circular motion *12437

01A40 *15th and 16th centuries, Renaissance*

Ashworth, E. J. 9925
de Bustos Tovar, Eugenio 7168
(Copernicus, Nicolaus) (*12414)
Giannuzzi, Maria Antonietta 12438
Kaunzner, Wolfgang *27,*9926
Romaña, Antonio 7169
Ceremonial Scientific Session dedicated to Nicolaus Copernicus, 1972 (*12414)

01A45 *17th century*

Albis González, Víctor Samuel 28
Carruccio, Ettore 12439
Fellmann, E. A. 7170
(de Fermat, Pierre) 28
(Leibniz, Gottfried Wilhelm) 7170,12439
(Newton, Isaac) 7170
(Peano, Giuseppe) 12439
Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 1971 7170

01A50 *18th century*

Bălan, Stefan 12440
Câmpan, Florica T. 9927
(Galilei, Galileo) 12440
(Newton, Isaac) 7171
(Philippidès, Daniel) 9927
Scriba, Christoph J. 7171

01A55 *19th century*

Bălan, Stefan (12440)
Dieudonné, Jean (7507)
(Fourier, Joseph) *7172
(Galilei, Galileo) (12440)
Grattan-Guinness, I. *7172
(Hamilton, William Rowan) 4896
Pedoe, Dan 2381
(Pohle, F. V.) 4896
(Ravetz, J. R.) *7172
Riedrich, Thomas 2382
van der Waerden, B. L. 4896
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) (7507)

01A60 *20th century*

Becker, E. 7173
Kline, George L. (7186)
Vilciņš, T.; et al. 7174
Zarina, S.; et al. 7174
Contributions to logic and methodology in honor of J. M. Bocheński (7186)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 7173

01A65 *Contemporary*

Aleksandrjan, R. A.; et al. 7175
Arató, Mátyás (14025)
Bullen, K. E. 9928
(Butzer, P. L.) (*7162)
Džrbašjan, M. M.; et al. 7175
Mergeljan, S. N.; et al. 7175
(Stark, E. L.) (*7162)
Talaljan, A. A.; et al. 7175
Bibliography: German dissertations (1961-1970) (*7162)
Mathematical research in Armenia (1971-1975) 7175
Dissertationen in Mathematik an den Hochschulen der Bundesrepublik Deutschland in der Zeit von 1961 bis 1970 (*7162)
Spectrum of mathematics (Essays presented to H. G. Forder) 9928

01A70 *Biographies, obituaries, personalia*

Aleksandrov, P. S.;etal. 29,30
Atiyah, M. F. 2383
(Baker, Alan) 2394
Balinski, M. L. 12441
(Bancroft, T. A.) (*6337)
Barancev, R. G.; et al. 4897
Bazarov, I. P.; et al. 12444
Belova, A. V. 4898
(Berenblut, I. I.) 9943
Bernays, Paul 4904
(Bernays, Paul) 4903,4905
Bespamjatnyh, N. D. 12445
Bicadze, A. V.; et al. 9929
Bird, Otto 12446
(Birnbaum, Z. W.) 12455
Bogdanov, Ju. S.; et al. 9934
Bogoljubov, N. N.; et al.12444
(Bogomolov, S. A.) 12445
(Bombieri, Enrico) 2385,2395,*9905
Borevič, Z. I.; et al. 4897
(Bos, Werner) 5176
Brauer, R. 2384
Brinkmann, Hans-Berndt; et al. 7176
Brown, G. E. 9930
(Brown, Susan Alice) (*6337)
de Bruijn, N. G. 12448
(Burau, Werner) *9906
(Butcher, J. C.) (*7160)
Câmpan, Florica T. (9927)
Čerskiĭ, Ju. I.; et al. 33
Chandrasekharan, K. 2385
Colombo, Bernardo 9933
(van der Corput, Johannes G.) 12448,12449
(Creangă, Ion) 12451
(D'Addario, Raffaele) 9937
(Dan-i, Takeshi) 12453
Dantzig, George B. 12443
(Diviš, Bohuslav) 12462
Djad'kov, Sergej 12450
Drăgan, I. 12451
Duchou, M.; et al. 31
(Dufrenoy, Jean) 9952
Dzjadik, V. K.; et al. 9946
(Eilenberg, Samuel) 2387,2388
(Einstein, Albert) *9938,*9953
Erugin, N. P. 4899
Erugin, N. P.;et al. 4900,9934
Faddeev, D. K.; et al. 9935
(Finzi, Bruno) 12452
(Flores, Jorge) (*4885)
(Fomin, S. V.) 29
(Forder,H.G.)(*7160),9950,9951
(Fourier, Joseph) (*7172)
Frank, M. D. 9931
Fritsch, Rudolf; et al. 7176
(Fulkerson, D. R.) 9947
Fursa, T. G.; et al. 9936
Fursov, V. S.; et al. 12444
(Gahov, F. D.) 33
Galletto, Dionigi 12452
Gasymov, M. G.; et al. 4900
Gavriljuk, V. T.; et al. 9946
Gel'fand, I. M.; et al. 29
(Gluškov, V. M.) 40
(Golovin, O. N.) 30
(Gonseth, Ferdinand) 37
Grattan-Guinness, I. (*7172)
Grib, A. A.; et al. 4897
Grothendieck, A. 2386
Guerrieri, Giuseppe 9937
(Hájek, J.) 2399
Haupt, Otto 7177
Herneck, Friedrich *9938
(Hilton, P.) *2397
(Hironaka, H.) 2386
Hirsch, G. 12449
Hoeffding, Wassily 9939
Hohlov, R. V.; et al. 12444
(Hotelling, Harold) 9939
(Hut'a, Anton) 31
Hvedelidze, B. V.; et al. 33
Il'in, V. A.; et al. 9929
Iseki, S.; et al. 12453
Izobov, N. A. 9934
(Jeffery, Ralph L.) 2391
Kadomcev, B. B.; et al. 12444
(Kalmár, László) 9955,9956
Kalužnin, L. A.; et al. 30
Kamps, Klaus Heiner; et al. 7176
(Kargapolov, M. I.) 9957
(Klapka, Jiří) 36
(Kočin, N. E.) 4899
Kolmogorov, A. N.; et al. 29
(Konjuš, A. A.) 12459
(Korous, Josef) 9948
Kostrikin, A. I.; et al. 30
Kotiĭ, O. A.; et al. 12458
(Koutský, Zdeněk) 9940
Kozlov, V. Ja.; et al. 32
Kramosil, Ivan; et al. 9940
(Künneth, Hermann) 7177
Kurpel', M. S.; et al. 7178
Lancaster, H. O. 9941
La Porte, Deirdre 12447
(Laptev, B. L.) 4902
(Levinson, Norman) 4902
Levšin, L. V. *9942
Lindley, D. V. 9943
(Linnik, Ju. V.) 9935,9936,9944
Litvinčuk, G. S.; et al. 33
(Lorch, Lee) 4901
Loginskiĭ, S. M.; et al. 9935
Lucka, A. Ju.; et al. 7178
(de Lyra, Carlos B.) 2396, 2397
Mac Lane, Saunders 2387
(Mahalanobis, Prasanta Chandra) 9949
Maĭkov, E. V.; et al. 29
Maĭorov, V. M.; et al. 12458
Malygev, A. V. 9944
Malyšev, A. V.;et al.9935,9936

01A70 *Continued*

Mamedov, Ja. D.; et al. 4900
Mamedov, Ju. A.; et al. 4900
Maracchia, S. 2389
(Marczewski, Edward) 9958
Mardžanišvili, K. K.; et al. 32
Maslov, V. P.; et al. 29
(Mateescu, Cristea) 12457
Mayes, Vivienne 4901
Mihaĭlov, L. G.; et al. 33
Mihoc, Gh. 9945
Mišík, Ladislav 34
(Mitrinović, D. S.) (*7155)
Mitropol's'kiĭ, Ju. O.; et al. 7178,9946
(Mitropol's'kiĭ, Ju. O.) 12450
(Moshinsky, Elena) (*4885)
(Moshinsky, Marcos) (*4885)
Mostow, G. D. 12454
(Mostowski, Andrej) 2398
(Mumford, David) 2393
(Mushelišvili, Nikolaĭ Ivanovič) 9954
Naas, Josef 7179
(Natucci, Alpinolo) 2389
Nemhauser, G. L. 9947
(Nicolescu, Miron) *12456
Newman, M. H. A. 35
Norden, A. P.; et al. 4902
(Novaro, Octavio) (*4885)
(Novikov, S. P.) 2383
Obůrka, Oto 36
Oleĭnik, O. A.; et al. 29
Ol'hovskiĭ, I. I.; et al. 12444
Palej, Marian 2390
(Pantazi, Alexandru) 9945
(Petrovskiĭ, I. G.) 9959
(Philippides, Daniel) (9927)
Poljahov, N. N.; et al. 4897
Popescu, Hristache; et al. 12457
Půchovský, František 9948
Rao, C. R. 9949
(Rasulov, M. L.) 4900
(Ravetz, J. R.) (*7172)
(Remez, E. Ja.) 9946
Robb, Douglas 9950
Robinson, G. de B. 2391,2392
(Rosenfeld, Léon) 9930-9932
Rueff, Marcel 37
(Šalát, Tibor) 34
Samarskiĭ, A. A.; et al. 9929
Sandoval Vallarta, Manuel (*4885)
Šapukov, B. N.; et al. 4902
Satō, Isuke 38
(Satō, Isuke) (*10)
Saunders, Sam C. 12455
(Schmidt, Erhard) 7179
Schöpf, Hans-Georg 39
Šeda, V. 31
(Serre, Jean-Pierre) (*7156)
Ševelo, V. M. 7178
(Šidlovskiĭ, A. B.) 32
Sinaĭ, Ja. G.; et al. 29
(Skopec, Z. A.) 12458
Šmel'kin, A. L.; et al. 30
Smoljanov, O. G.; et al. 29
(Snedecor, George W.) (*6337)
Sokolov, A. A.; et al. 12444
(Sokolov, Ju. D.) 7178
Stahn, Heinz 40
Stoilow, S. *12456
Suguri, T. 41
Svešnikov, A. G.; et al. 9929
Tate, J. 2393
(Thomas, Ivo) 12446,12447
(Thompson, John G.) 2384
Tihomirov, V. M. 29
(Tihonov, A. N.) 9929,12460
(Treder, Hans-Jürgen) 39
(Tucker, Albert William) 12441-12443
Turán, Pál 2394
(Uggè, Albino) 9933
(Urabe, Minoru) 41,12461
Vaccaro, G. 2395
(Vallander, S. V.) 4897,4898
(Vasilevic, A. P.) 35
(Vavilov, S. I.) *9942
Vessereau, L. A. 9952
(Vlasov, A. A.) 12444
Voinea, Radu; et al. 12457
(Weyl, H.) 35
(Wickens, Charles Henry) 9941
Wickert, Johannes *9953
(Wigner, E. P.) (*4885)
Williams, M. L. 9954
(Williams, W. L. G.) 2392
Winkelbauer, Karel; et al. 9940
Wolff, Gerhard; et al. 7176
(Wußing, H.) *9938
Žarov, V. A.; et al. 12458
(Zawadzki, Adam) 2390
(Ždanov, G. M.) 42
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 2383,2384,2386,2394
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 2387,2388
Anniversary:
Birth of S. A. Bogomolov (100th) 12445
Birth of N. E. Kočin (75th) 4899
Birth of Alexandru Pantazi (80th) 9945
Birth of Erhard Schmidt (100th) 7179
Bibliography:
Berenblut, I. I. 9943
Bernays, Paul 4905
Birnbaum, Z. W. 12455
Bos, Werner 7176
D'Addario, Raffaele 9937
Demidovič, B. P. 9934
Diviš, Bohuslav 12462
Eilenberg, Samuel 2388
Fomin, S. V. 29
Forder, H. G. 9951
Fulkerson, D. R. 9947
Gahov, F. D. 33
Golovin, O. N. 30
Gonseth, Ferdinand 37
Hut'a, Anton 31
Kargapolov, M. I. 9957
Korous, Josef 9948
Koutský, Zdeněk 9940
Künneth, Hermann 7177
Laptev, B. L. 4902
Linnik, Ju. V. 9936
de Lyra, Carlos B. 2396
Mateescu, Cristea 12457
Mostowski, Andrej 2398
Rasulov, M. L. 4900
Robinson, Abraham 12454
Rosenfeld, Léon 9932
Satō, Isuke 38
Šidlovskiĭ, A. B. 32
Thomas, Ivo 12447
Tucker, Albert William 12442
Urabe, Minoru 41,12461
Vavilov, S. I. *9942
Wickens, Charles Henry 9941
Ždanov, G. M. 42
Scientific works of Yu. V. Linnik 9936
Biography:
Bernays, Paul 4903,4904
Birnbaum, Z. W. 12455
Dan-i, Takeshi 12453
Demidovič, B. P. 9934
Einstein, Albert *9938
Forder, Henry George 9950
Linnik, Ju. V. 9944
de Lyra, Carlos B. 2396
Satō, Isuke 38
Tucker, Albert William 12441,12443
Vavilov, S. I. *9942
Weyl, H. 35
Wickens, Charles Henry 9941
Birthday:
Burau, Werner *9906
Creangă, Ion (65th) 12451
Demidovič, B. P. (70th) 9934
Gahov, F. D. (70th) 33
Golovin, O. N. (60th) 30
Hut'a, Anton (60th) 31
Konjus, A. A. (80th) 12459
Korous, Josef (70th) 9948
Laptev, B. L. (70th) 4902
Mateescu, Cristea (80th) 12457
Mitropol's'kiĭ, Ju. O. (60th) 12450
Rasulov, M. L. (60th) 4900
Remez, E. Ja. (80th) 9946
Šalát, Tibor (50th) 34
Šidlovskiĭ, A. B. (60th) 32
Skopec, Z. A. (60th) 12458
Sokolov, Ju. D. (80th) 7178
Tihonov, A. N. (70th) 9929,12460
Bulletin GRG, No. 28 (6839)
Collection:
Bompiani, Enrico *9905
Burau, Werner *9906
Forder, H. G. (*7160)
Linnik, Juriĭ Vladimirovič 9935,9936,9944
de Lyra, Carlos B. (*2397)
Mitrinović, D. S. (*7155)
Moshinsky, Elena, and Moshinsky, Marcos (*4885)
Satō, Isuke (*10,38)
Serre, Jean-Pierre, Part II (*7156)
Snedecor, George W. (*6337)
Curriculum vitae of A. Mostowski 2398
Curriculum vitae Léon Rosenfeld 9932
Directory of scientists (general relativity and gravitation) (6839)
Obituary:
Berenblut, I. I. 9943
Bompiani, Enrico 2395
Bos, Werner 7176
van der Corput, Johannes G. 12448,12449
D'Addario, Raffaele 9937
Diviš, Bohuslav 12462
Dufrency, Jean 9952
Finzi, Bruno 12452
Fomin, S. V. 29
Fulkerson, D. R. 9947
Gonseth, Ferdinand 37
Hájek, J. 2399
Hotelling, Harold 9939
Jeffery, Ralph L. 2391
Kalmár, László 9955,9956
Kargapolov, M. I. 9957
Klapka, Jiří 36
Koutský, Zdeněk 9940
Künneth, Hermann 7177
Linnik, Ju. V. 9935
Mahalanobis, Prasanta Chandra 9949
Marczewski, Edward 9958
Mushelišvili, Nikolaĭ Ivanovič 9954
Natucci, Alpinolo 2389
Petrovskiĭ, I. G. 9959
Robinson, Abraham 12454
Rosenfeld, Léon 9930,9931
Thomas, Ivo 12446
Uggè, Albino 9933
Urabe, Minoru 41,12461
Vallander, S. V. 4897
Vlasov, A. A. 12444
Williams, W. L. G. 2392
Zawadzki, Adam 2390
Ždanov, G. M. 42
Proceedings of the International Congress of Mathematicians 2385,2393
Sets and classes 4903-4905
Set theory and hierarchy theory (Proc. Second Conf., Bierutowice, 1975) 2398
Spectrum of mathematics (Essays presented to H. G. Forder) (*7160),9950,9951
Statistical papers in honor of George W. Snedecor (*6337)

01A75 *Collected or selected works; reprintings or translations of classics*

Bogoljubov, N. N. *2400
Buhvostov, A. P. *2402
Čaplygin, S. A. *9963
(Cartan, Henri) *2409
(Choquet, Gustave) *2409
(Danilov, Ju. A. *2404
(Denjoy, Arnaud) *2409
Euler, Leonard *7180,*7181
(Fellmann, Emil Alfred) *7180
(Frenkel', Ja. I.) *2402,*2403
(Frenkel , V. Ja.) *2402
(Fufaev, N. A.) *9963
(Gandel'sman, E. M.) *2402,*2403
(Grigoljuk, E. I.) *12466,*12467
(Grigor'jan, A. T. *2401
(Habicht, Walter) *7180
(Hartman, Stanisław) (*2405-*2407)
(Hristianovič, S. A.) *9963
(Huber, Oswald) (*7187)
Idel'son, N. I. *2401
Ioffe, A. F. *2402,*2403
(Kantorovič, L. V.) *9963
(Keldyš, M. V.) *9963
(Kontorova, T. A.) *2403
(Kovalenko, A. D.) *12463
(Kuratowski, Kazimierz) *2405-*2407
(Lavrent'ev, M. A.) *12464,*12465
Mal'cev, A. I. *12464,*12465
Mally, Ernst (*7187)
(Marczewski, Edward) *2406,*2407
(Merkin, D. R.) *2401
(Mokre, Johann) (*7187)
(Mostowski, Andrzej) *2406,*2407
(Neĭmark, Ju. I.) *9963
(Nikanorov, S. P.) *2402
(Paršin, A. N.) 43,(2408)
Pauli, Wolfgang *2404
Persidskiĭ, K. P. *7182
(Pisarenko, G. S.) *12463
(Regel', A. R.) *2403
(Rényi, Alfréd) *9960-*9962
(Rothbucher, Heinz) (*7187)
(Rothbucher, Monika) (*7187)
(Sanfirov, Ju. Z.) *2403
(Sazykin, A. A.) *2404
(Schinzel, André) *2405-*2407
(Semenova, N. M.) *9963
Sierpiński, Wacław *2405-*2407
(Šifrina, E. M.) *2402
(Sikorski, Roman) *2407
(Širšov, A. I.) *12464,*12465
(Smorodinskiĭ, Ja. A. *2404
(Sobotka, Martha) (*7187)
(Stark, Marceli) *2407
(Stil'bans, L. S.) *2403
Timošenko, S. P. *12466,*12467
(Truesdell, Clifford Ambrose) *7181
(Turán, Pál) *9960-*9962
(Weingartner, Paul) *7187
(Wenisch, Fritz) *7187
Weyl, H. 43,2408
(Wolf, Karl) *7187
(Žautykov, O. A.) *7182
(Žurkov, S. N.) *2402,*2403
(Žuze, V. P.) *2403
Bibliography:
Čaplygin, S. A. *9963
Denjoy, Arnaud *2409
Rényi, Alfréd *9960-*9962
Sierpiński, Wacław *2405,*2406
Timošenko, S. P. 12467
Biography:
Čaplygin, S. A. *9963
Sierpiński, Wacław *2405,*2406
Arnaud Denjoy: évocation de l'homme et de l'oeuvre *2409
Obituary: Denjoy, Arnaud *2409
Selected papers of Alfréd Rényi, Vol. I: 1948-1956 *9960
Selected papers of Alfréd Rényi, Vol. II: 1956-1961 *9961
Selected papers of Alfréd Rényi, Vol. III: 1962-1970 *9962

02—XX LOGIC AND FOUNDATIONS

Gordon, Henry G. (4862)
Hemmerling, Armin (4863)

02-01 *Elementary exposition (collegiate level)*

(Adjan, S. I.) *4907
Armstrong, Robert L. (9968)

02-01 *Continued*

Ash, C. J.; et al. *2411
Bizám, György; et al. *2410
Brickhill, C. J.; et al. *2411
Crossley, J. N. (4963)
Crossley, J. N.; et al. *2411
van Dalen, D. 12468
Dieudonné, Jean (12412)
Drabbe, Jean 12469
Goodstein, R. L. *4906
Herczeg, János; et al. *2410
Heyting, Arend (2426)
Hischer, Horst; et al. 9964
(Kabakov, F. A.) *4907
Lucht, Lutz; et al. *9964
Mendelson, Elliott *4907
Piccoli, Alessandra 7183
(Raab, Johanna) *2410
Rüthing, Dieter 9965
Seldin, Jonathan P. 7184
Stillwell, J. C.; et al. *2411
Williams, N. H.; et al. *2411
Cinquantenario della Unione Matematica Italiana, 1922-1972 (2426)
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) (4963)

02-02 *Advanced exposition (research surveys, etc.)*

(Cohen, Paul E.) (*4977)
Dummett, Michael (*9985)
(Kozmidiadi, V. A.) *44
(Lomkovskaja, M. V.) *44
Mac Lane, Saunders (2747)
(Minio, Roberto) (*9985)
(Mučnik, A. A.) *44
Takeuti, Gaisi; et al. (*4977)
Zaring, Wilson M.; et al. (*4977)
Complexity of algorithms and classes of computable functions *44
Computable functions *44
Logic, mathematical *44
Problems: Mathematical logic *44

02-03 *Historical*

Carruccio, Ettore (12439)
(al-Fārābī, Abū Naṣr Muḥammad ibn Muḥammad ibn Tarkhān (7167)
Fogelin, Robert J. 4908
(Hamilton, William Rowan) 4908
Hawkins, Benjamin S. 7185
(Huber, Oswald) *7187
Kline, George L. 7186
(Kohlenberger, Helmut) *7188
(Leibniz, Gottfried Wilhelm) (12439)
Mally, Ernst *7187
Maracchia, Silvio 12470
(Mokre, Johann) *7187
Nerode, A. 45
(Peano, Giusseppe) (12439)
(Peirce, C. S.) 7185
Pinborg, Jan *7188
(Rothbucher, Heinz) *7187
(Rothbucher, Monika) *7187
Šaĭmuhambetova, G. (7167)
(Sobotka, Martha) *7187
Vassails, Gérard (51)
(Weingartner, Paul) *7187
(Wenisch, Fritz) *7187
(Wolf, Karl) *7187
Contributions to logic and methodology in honor of J. M. Bocheński 7186
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 45

02-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Bauer, F. L. 7189

02-06 *Collections of papers; proceedings of conferences*

(Bastiani, A.) (*371)
(Bocvar, D. A.) *7191
(Ehresmann, C.) (*371)
(García Camarero, E.) *4909
(Marek, W.) *2412
(Matijasević, Ju. V.) *9966
(Mostowski, Andrzej) *2412
(Orevkov, V. P.) *7190
(Šanin, N. A.) *7190
(Slisenko, A. O.) *9966
(Srebrny, M.) *2412
(Zarach, A.) *2412
Algèbre des catégories (*371)
Category theory (*371)
Collection: Mostowski, Andrzej *2412
Colloque sur l'Algèbre des Catégories, Deuxième (Amiens, 1975), Résumés des Conférences (*371)
Colloquium on Symbolic Logic (Univ. Complutense, Madrid, 1975) *4909
Conference on Set Theory and Hierarchy Theory, Second (Bierotowice, 1975) *2412
Constructive mathematics *7190,*9966
Formalized languages *7191
Hierarchy theory *2412
Joint Session of the Aristotelian Society and the Mind Association (Univ. Kent, Canterbury, 1975) *4910
Logic *4909,*7191
Mathematical logic *9966
Problems: Constructive trend in mathematics, 6 *7190
Set theory *2412
Set theory and hierarchy theory (Proc. Second Conf., Bierutowice, 1975) *2412
Studies in constructive mathematics and mathematical logic, VII *9966
Studies in formalized languages and nonclassical logics *7191
Symbolic logic *4909
Symposia read at the Joint Session of the Aristotelian Society and the Mind Association *4910

02A05 Philosophical and critical

Adams, Ernest W. 12471
Aleksandrov, E. A. (2255)
Barnes, Kenneth T. 12472
Bencivenga, Ermanno (12523)
Bunge, Mario 9967
Byrd, Michael E. (12483)
Castonguay, Charles *2413
Daniels, C. 46,47
Davis, Charles 7192
(Dummett, Michael) 4913
Englebretsen, George 48
(Fogelin, Robert J.) 7193
Hintikka, Jaakko *4911,7193
Jirků, Petr 4912
Kamp, Hans 7194
Kondō, Motokiti (12496)
Leblanc, Hugues; et al. (2416)
Lejewski, Czesław 4913
Marquetty, A. 49
Mleziva, Miroslav (7242)
Neuhold, E. J. (9140)
Parsons, Charles 4914
Paul, Siegfried (4890)
(Potts, Timothy C.) 7193
(Prawitz, Dag) 4913
Przełęcki, Marian 7195
Rescher, Nicholas *7196
Resnik, Michael D. 12473
Rucker, R. V. B. (12524)
Samohvalov, K. F. 7197
Sauriol. Pierre 4915
Sicha, Jeffrey (*9921)
Spencer Brown, G. (*4892)
Vassails, Gérard 50-53
Weaver, George; et al. (2416)
Williams, P. M. 4916
Wójcicki, Ryszard 54
Conference for Formal Methods in the Methodology of Empirical Sciences (Jabłonna, June 17-21, 1974) 7197
Foundations of computer science (Lecture Notes, Advanced Course Univ. Amsterdam, Amsterdam, 1974) (9140)
Philosophy of logic (Proc. Third Bristol Conf. on Critical Philosophy, Univ. Bristol, Bristol) 4913,7193
Proceedings of a Colloquium on Logic and Ontology (Salzburg, 1973) 7192,9967
Reports of the Seminar on Formal Methodology of Empirical Sciences (March 1973-October 1973) 54
Truth, syntax and modality (2416)

02Bxx Classical logical systems

02B05 *Propositional calculus*

Armstrong, Robert L. 9968
Bryll, Grzegorz; et al. (4954)
Čimev, K. N. 4917
Čimev, K. N.; et al. 55
Cook, Stephen; et al. (7215)
Czajsner, Jerzy (2446)
Dunham, Bradford; et al. (14464)
Ecker, Klaus; et al. 12474
Fartos Martínez, M. 9969
Hrapčenko, V. M. (14881)
Kutirkov, G. A.; et al. 55
Leblanc, Hugues; et al. (2416)
Maduch, Marian 4918
Mariño, Rafael 56
Mitew, W.; et al. 12475
Montella, Eduardo 9970
Moscenskiĭ, V. A. 9971
Piróg-Rzepecka, Krystyna 2414
Popov, S. V. 9972
Posthoff, Ch.; et al. 12475
Reckhow, Robert; et al. (7215)
Rose, Alan 4919,4920
Rüthing, Dieter (9965)
Schütt, Dieter; et al. 12474
Słupecki, Jerzy; et al. (4954)
Surma, Stanisław J. 9973a-b
Thomas, Ivo 9974
Verhozina, M. I. (4959)
Wang, Hao, et al. (14464)
Weaver, George; et al. (2416)
Wybraniec-Skardowska, Urszula 7198
Algebra, No. II (4959)
Truth, syntax and modality (2416)
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974 (7215)

02B10 *Predicate calculus*

Bryll, Grzegorz (7313)
van Dalen, D. (12468)
Felscher, Walter 12476
Gurevič, Ju. Š.; et al. (10003)
Hałkowska, Katarzyna 7199
Hałkowska, Katarzyna; et al. 7200
Iannacci, Rita (2432)
Kopiecki, Ryszard; et al. (86)
Piróg-Rzepecka, Krystyna; et al. 7200
Prešić, Slaviša B. 4921
Saralski, Bogdan; et al. (86)
Turašvili, T. V. 2415
Turašvili, T. V.; et al. (10003)
Waligora, Gerald; et al. (86)
Papers presented at the Logic Conference (Opole, 1973) (7313)
Stanisław Jaśkowski's achievements in mathematical logic (Proc. 20th Conf. History of Logic, Cracow, 1974) (86)

02B15 *Higher order predicate calculus*

Huet, Gerard P. (2442)
Leblanc, Hugues; et al. 2416
Rabin, Michael O. (12512)
Weaver, George; et al. 2416
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12512)
Truth, syntax and modality 2416

02B20 *Unusual quantifiers*

Aczel, Peter 12477
Engeler, Erwin (9132)
(Fogelin, Robert J.) (7193)
Gostanian, Richard; et al. 9975
Guenthner, Franz; et al. 9976
Hintikka, Jaakko (7193)
Hoepelman, J. Ph.; et al. 9976
Hrbacek, Karel; et al. 9975
Paulos, John (88)
(Potts, Timothy C.) (7193)
Weese, Martin 12478
International Symposium on Theoretical Programming (Novosibirsk, 1972) (9132)
Philosophy of logic (Proc. Third Bristol Conf. on Critical Philosophy, Univ. Bristol, Bristol) (7193)
Proceedings of the Scandinavian Logic Symposium, Third (Univ. Uppsala, Uppsala, 1973) 12477
Set theory and hierarchy theory (Proc. Second Conf., Bierutowice, 1975) 12478

02B25 *Infinitely long sentences*

Aczel, Peter (12477)
Barwise, Jon (*12519)
Felscher, Walter (9984,12476)
Gordon, Carl E. (4945)
Gostanian, Richard; et al. (9975)
Hrbacek, Karel; et al. (9975)
Nyberg, Anders M. 7201
Paulos, John (88)
Rosenthal, John W. (2465)
Schwichtenberg, H.; et al. (7231)
Ville, Françoise (4979)
Wainer, S. S.; et al. (7231)
Generalized recursion theory (Sympos., Oslo, 1972) (4979)
⊢ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) (7231,9984)
Proceedings of the Scandinavian Logic Symposium, Third (Univ. Uppsala, Uppsala, 1973) (12477)

02B99 *None of the above, but in this section*

Kořt, M. (1723)

02Cxx Nonclassical formal systems

02C05 *Many-valued logic*

Bellman, Richard; et al. 2417
Brady, Ross T. 57
Bryll, Grzegorz; et al. (4954)
Demetrovics, J. 58
Giertz, Magnus; et al. 2417
Gniazdowski, Andrzej 4922
Harnau, Walter 59,12479,12480
Kline, George L. (7186)
Lakoff, George 9977
Leigh, Vivien 12481
Maduch, Marian (4961)
Miyama, Tōru 60
Rasiowa, Helena 61
Švačov, V. L.; et al. 2418
Skljarov, L. I.; et al. (4954)
Słupecki, Jerzy; et al. (4954)
Suchoń, Wojcieh 2419,2420,(4973)
Surma, Stanisław J. 4923
Tonĭca, V. S.; et al. 2418
Vassails, Gérard (50,53)
Wroński, Andrzej 12482
Contributions to logic and methodology in honor of J. M. Bocheński (7186)
Papers presented at the Logic Conference (Opole, 1973) 2420,4923

02C10 *Modal logic, etc.*

Åqvist, Lennart 4924
Barnes, Kenneth T. (12472)
Błaszczuk, Jerzy J.; et al. 9978
Bryll, Grzegorz; et al. (2441),7206
Byrd, Michael E. 12483
Chellas, Brian F. 12487b
Cresswell, M. J. 2421
Guenthner, Franz (9976)
Dahn, Bernd I. 4925
Davis, Charles (7192)
Dziobiak, Wiesław; et al. 9978
Fitch, Frederic B. 2422
Freeman, James B. 2423
Gabbay, Dov M. 7202
Georgacarakos, G. N. 62
Gniazdowski, Andrzej (2447)
Goble, L. F. 63
Gumański, Leon 12484
Hazen, Allen 7203
Hoepelman, J. Ph.; et al. (9976)
Hung, C. U. 12486
Hung, Cp'êng Wan 12485
Kamp, Hans (7194)
(Leblanc, H.) 12487b
Leblanc, Hugues 12487a
Lewis, David K. *9979,9980,9981
Makinson, David 2424
Meyer, Robert K. 7204
Mott, Peter L. 7205
vander Nat, Arnold; et al. 64
Rescher, Nicholas; et al. 64
Rosiek, Maria (2441)
Routley, R. 4926
Segerberg, Krister 12488
Słupecki, Jerzy; et al. 7206
Vassails, Gérard (52)
Woodruff, Peter W. 7207
Zachorowski, Stanisław 65
Cinquantenario della Unione Matematica Italiana, 1922-1972 (4914)
Proceedings of a Colloquium on Logic and Ontology (Salzburg, 1973) (7192)
Proceedings of the Symposium on Exact Philosophy, First (McGill Univ., Montreal, Que., 1971) 12487a-b

02C15 *Formalizations of intuitionism, etc.*

Beeson, Michael 2425,7208
Bowen, Kenneth A. (4931)
Dragalin, A. G. 66
Dummett, Michael *9985,*9986
Felscher, Walter (12476)
Girard, J. Y. (4932)
Heyting, Arend 2426
Homič, V. I. 2427
Lopez-Escobar, E. G. K.; et al. 67
Luckhardt, Horst (12494)
Máté, Attila (12528)
(Minio, Roberto) (*9985,*9986)
Okee, Jekeri 7209
Ono, Hiroakira 2428
Powell, William C. (4978)
Raca, M. F. 68
Scarpellini, B. (7219)
Troelstra, A. S. 9982
Veldman, W. 67
Wroński, Andrzej 4927a-b
Cambridge Summer School in Mathematical Logic (1971) (4932)
Cinquantenario della Unione Matematica Italiana, 1922-1972 2426
▶ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 67,(7219),9982,(12494)
Mathematical logic (*7251)
Notas de Logica Matemática, Nos. 1-2-3 (*7251)
Notes in mathematical logic, Nos. 1-2-3 (*7251)
Theory of algorithms, and mathematical logic (dedicated to A. A. Markov on the occasion of his 70th birthday) 66

02C20 *Combinatory logic*

Fehr, Elfriede (*9133)
Fitch, Frederic B. *2429
Huet, G. P. (6583)
Kuzičev, A. S. 12489
Milner, Robin (4171)
Nolin, L. (1700)
Reynolds, John C. (1784)
Šabunin, L. V. 7210a-b
Sazonov, V. Ju. 7211
Schwichtenberg, Helmut 4928
Simone, Carla 69
Venturini Zilli, Marisa 70
Vuillemin, Jean (9143)
Logic Colloquium '73 (Bristol, 1973) (4171)
Symposia Mathematica, Vol. XV (1700,1704)
Symposium on the Theory of Computing, Fifth Annual ACM (9143)

02C99 *None of the above, but in this section*

Alves, Elias H.; et al. 12490
da Costa, Newton C. A.; et al. 12490
Dahn, Bernd 12491a-b
Hájek, Petr 71
Mathematical foundations of computer science 1975 (Fourth Sympos., Marianské Lázně, 1975) 71

02Dxx Proof theory (For theorem proving by machines, see 68A40.)

02D05 *Proof theoretic ordinals*

Belnap, Nuel D., Jr. 2430
Buchholz, W. 72
(Dunn, J. Michael) 2430
Kreisel, G. (12493)
Preiffer, H. 2431, 7212
Pohlers, W. 4929
(Quine, W. V.) 2430
Schütte, Kurt 7213,(12503)
Takeuti, Gaisi; et al. 12492
Troelstra, A. S. (9982)
Yasugi, Mariko 7214
Yasugi, Mariko 12492
▶ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 72,2431,4929,(9982)
Proceedings of the Scandinavian Logic Symposium, Second (Oslo, 1970) (12493)
Symposia of the Annual Meeting of the Western Division of the American Philosophical Association, 68th (St. Louis, Mo., 1970) 2430

02D99 *Other proof theory*

Bibel, W. 4930
Bowen, Kenneth A. 4931
Cook, Stephen; et al. 7215
Dummett, Michael (*9985,*9986)
Ehrenfeucht, A.; et al. (7244)
Felscher, Walter 9984,(12476)
Girard, J. Y. 4932
Han, Byung Ho 4933
Iannacci, Rita 2432
Jensen, D.; et al. (7244)
Kopiecki, Ryszard; et al. (86)
Kreisel, G. 73,12493
Luckhardt, Horst 12494
Magari, Roberto 7216
(Minio, Roberto) (*9985-*9986)
Nishimura, Toshio 7217
Popov, S. V. (9972)
Prawitz, Dag 7218
Reckhow, Robert; et al. 7215
Resnik, Michael D. (12473)
Rogava, M. G. 12495
Rose, H. E. (12500)
Saralgki, Bogdan; et al. (86)
Scarpellini, B. (7219)
Shostak, Robert E. 6584a-b
Suchoń, Wojciech (2419)
(Takahashi, Motoo) 7217
Waligóra, Gerald; et al. (86)
Wroński, Andrzej (12482)
Zöberlein, Volker (12854)
Cambridge Summer School in Mathematical Logic (1971) 4932
Cinquantenario della Unione Matematica Italiana, 1922-1972 7218
▶ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 73,7219,9984,12494
Stanisław Jaśkowski's achievements in mathematical logic (Proc. 20th Conf. History of Logic, Cracow, 1974) (86)
Logical and logico-mathematical calculi, 2 12495
Proceedings of the Scandinavian Logic Symposium, Second (Oslo, 1970) 12493
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 7215

02Exx Constructive mathematics

Basic theory of programs (Proc. Third Sympos., Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) (*4160)
Proceedings of the Symposium on Basic Theory of Programs, Third (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) and of the Workshop for Proof Theory about Algorithms (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) (*4160)
Programs (*4160)
Proof theory about algorithms (Proc. Workshop, Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) (*4160)

02E05 *Intuitionistic mathematics*

Dummett, Michael *9985,*9986
(Minio, Roberto) *9985,*9986
Mozzochi, C. J. 9987
Plisko, V. E. 2433
Šanin, N. A. 74
Stout, Lawrence Neff (10015)
Investigations in constructive mathematics and mathematical logic, VI 74

02E10 *Algorithms*

Grodzki, Zdzisław 4934
Kołodziej, Reinhold 4935a-b
Kreczmar, Antoni (12509)
Müller, D. W.; et al. 9988
Schnorr, Claus Peter (*2328)
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) (12509)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 9988

02E15 *Computable functions*

Bremer, Hanke; et al. 7220
Bridges, Douglas S. 7221
Iturrioz, Luisa (10011)
Kirschenmann, Peter (14027)
Kondō, Motokiti 12496
Marandžjan, G. B. 4936
Payne, Thomas H. (4946)
Reynvaan, Conrad H. H. 7220
Trahtenbrot, M. B. (4172)
Proceedings of the Symposium on Exact Philosophy, First (McGill Univ., Montreal, Que., 1971) (14027)

02E99 *None of the above, but in this section*

Richman, Fred 4937
Seidenberg, Abraham 4938,(12741)

02Fxx Recursion theory

02F10 *Automata* [*See also* 18B20, 68A25,94A30,94A35.]

Aanderaa, Stål 412
Adjan, S. I. 10424

02F10 *Continued*

Barzdiňš, J. 9989
Čulík, Karel (11853)
Dassow, Jürgen 4939
(Novikov, P. S.) 10424
Rabin, Michael D. (12512)
Skowron, Andrzej 4940
Sontag, Eduardo D. 4941
Wiśniewski, K. (1718)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12512)
Mathematical foundations of computer science (Proc. Sympos. and Summer School, Štrbské Pleso, 1973) 4940
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) 413
Mathematical logic, theory of algorithms and theory of sets 10424
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 9989

02F15 *Turing machines*

Aitchison, Peter W.; et al. 9990
Baer, Robert M.; et al. 9991
Baraňko, A. S. (14436)
v. Henke, F. W.; et al. (2434)
Herman, Gabor T.; et al. 9990
Indermark, K.; et al. (2434)
Ladner, Richard E.; et al. 7222
van Leeuwen, Jan; et al. 9991
Lynch, Nancy A.; et al. 7222
Milgram, David L. (9161)
Pobedin, L. N. (12508)
Rackoff, Charles (4957)
Rogozin, Ju. V. 12497
Rose, G.; et al. (2434)
Šakuov, S. N. 7223
Strnad, Pavel 9992
Trahtenbrot, B. A. 12498
Weihrauch, K. (2434)
Mathematical logic, theory of algorithms and theory of sets 12498
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (4957)

02F20 *Classification of recursive functions*

Alton, Donald A. 75
Avenhaus, J.; et al. (12510)
Dehtjar', Mihail I. 4942
van Emde Boas, P. 7224
Freivalds, R. 12499
Grandjean, Étienne 7225
v. Henke, F. W.; et al. 2434
Indermark, K.; et al. 2434
Klette, Reinhard 2435
Ladner, Richard; et al. (7222)
Levin, A. A. 9993
Lindner, Rolf; et al. 7226
Lynch, Nancy A.; et al. (7222)
Madlener, K. (12510)
Matljasevič, Ju. V. (2444)
Mehlhorn, Kurt 76
Mentrasti, Patrizia 7227
Moll, Robert 77
Oppen, Derek C. (4187)
Raymond, F. H. (9141)
Rose, G.; et al. 2434
Rose, H. E. 12500
Stahl, Stanley H. (7233)
Weihrauch, K.; et al. 2434
Werner, Günter; et al. 7226
Wiehagen, Rolf 7228
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2444)
Automata theory and formal languages (Second GI Conf., Kaiserslautern, 1975) (12510)
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) 12499
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (4187)
Symposium on Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 76

02F25 *Recursively enumerable sets*

Degtev, A. N. (9997,12505,12506)
Deutsch, Michael 2436
Flajolet, P.; et al. 12501
Gonshor, Harry (4949)
Lavrov, I. A. 78
Morris, Paul H. 4943
Novotný, Miroslav (14458)
Omanadze, R. Š. 4944
Rangel, Jose Lucas (4188)
Solov'ev, V. D. (9999)
Steyaert, J. M.; et al. 12501
Annual Symposium on Switching and Automata Theory, 15th (1974) (4188)
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) 12501

02F27 *Recursion theory on ordinals and sets and other abstract structures*

Barwise, Jon (*12519)
Buchberger, B. (9127)
Eršov, Ju. L. *9994,*9995
Fehr, Elfriede (*9133)
Fenstad, Jens Erik 79
Gordon, Carl E. 4945
Grilliot, Thomas J. 80
Lerman, Manuel 2437
Nyberg, Anders M. (7201)
Payne, Thomas H. 4946
Pinus, A. G. (4956)
Reisig, Wolfgang *12502
Richter, Wayne 81
Schütte, Kurt 12503
Shore, Richard A. 7229,12504
Skordev, D. (4950),7230
Stahl, Stanley H. (7233)
Ville, Françoise (4979)
Algebra, No. II (4956)
Generalized recursion theory (Sympos., Oslo, 1972) 79,80,(4979)
International Symposium on Theoretical Programming (Novosibirsk, 1972) (9127)
⊨ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 81

02F29 *Recursion theory at higher types*

Beljakin, N. V. 9996
Constable, Robert L. et al. (4166)
Egli, Herbert; et al. (4166)
Moschovakis, Yiannis N. 82
Schwichtenberg, H.; et al. 7231
Wainer, S. S.; et al. 7231
Generalized recursion theory (Sympos., Oslo, 1972) 82
⊨ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 7231

02F30 *Degrees of unsolvability*

Degtev, A. N. 9997,12505,12506
Eršov, Ju. L. 4947
(Eršov, Ju. L.) 4948
Ladner, Richard; et al. (6554)
Leeds, Stephen; et al. (7232)
Lynch, Nancy; et al. (6554)
Marčenkov, S. S. 9998
McLaughlin, T. G. 2438
Morris, Paul H. (4943)
Paljutin, E. A. 4948
Putnam, Hilary; et al. (7232)
Selman, Alan; et al. (6554)
Shore, Richard A. (7229)
Solov'ev, V. D. 9999
V'jugin, V. V. 10000
Yates, C. E. M. 12507
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 12507
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (6554)

02F35 *Hierarchies*

Aczel, Peter (12477)
Avenhaus, J.; et al. (12510)
Beljakin, M. V. (9996)
Garland, Stephen J. (4982)
Kechris, Alexander S. (7259)
Lachlan, A. H. 83
Leeds, Stephen; et al. 7232
Madlener, K.; et al. (12510)
Müller, D. W. (9988)
Pobedin, L. N. 12508
Putnam, Hilary; et al. 7232
Richter, Wayne (81)
Roguski, S. (4976)
Stahl, Stanley H. 7233
Ville, Françoise (4979)
Automata theory and formal languages (Second GI Conf., Kaiserslautern, 1975) (12510)
Axiomatic set theory (Proc. Sympos. Pure Math., Vol. XIII, Part II) (4982)
Generalized recursion theory (Sympos., Oslo, 1972) (4979)
⊨ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) (81)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II (9988)
Proceedings of the Scandinavian Logic Symposium, Third (Univ. Uppsala, Uppsala, 1973) (12477)

02F40 *Recursive equivalence types*

Barback, Joseph 84
Catlin, Seth 85
Crossley, J. N.; et al. 7234
Dekker, J. C. E. 7235
Dujols, René 2439
Gonshor, Harry 4949
McLaughlin, T. G. (2438)
Nerode, Anil; et al. 7234

02F43 *Formal systems for computability*

Courcelle, B.; et al. (4165)
Eršov, Ju. L. 7236
Galil, Zvi 2440
Hotz, Günter (14440)
Kreczmar, Antoni 12509
Skordev, D. 4950
Szymanski, T. G.; et al. (9155)
Tomás, Francisco (7238)
Ullman, J. D. (9155)
Venturini Zilli, Marisa (70)
Vuillemin, J.; et al. (4165)
Żakowski, W. (14446)
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) (9155)
Annual Symposium on Switching and Automata Theory, 15th (1974) 2440
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) 12509,(14440)
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (4165)

02F47 *Word problems*

Aanderaa, Stål (412)
Adjan, S. I. (10424)
Avenhaus, J.; et al. 12510
Cohn, P. M. 12511a-b
Madlener, K.; et al. 12510
Meyer. A. R.; et al. (6557)
(Novikov, P. S.) (10424)
Sacerdote, George S. (2814,4958)
Stockmeyer, L. J.; et al. (6557)
Valiev, M. K. (413)
Automata theory and formal languages (Second GI Conf., Kaiserslautern, 1975) 12510
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) (413)
Mathematical logic, theory of algorithms and theory of sets (10424)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (6557)
Word problems: decision problems and the Burnside problem in group theory (412)

02F50 *Applications*

Bean, Dwight R. 4951,4952
Müller, Horst 7237

02F99 *None of the above, but in this section*

Chaitin, Gregory J. (1709)
Hartmanis, J. (6550)
Jones, James P.; et al. (2615)
Sato, Daihachiro; et al. (2615)
Tomás, Francisco 7238

02Gxx Methodology of deductive systems

02G05 *Decidability and undecidability*

Aitchison, Peter W.; et al. (9990)
Baer, Robert M.; et al. (9991)
Baraňko, A. S. (14436)
Baudisch, A. (7246),10001
Baur, Walter 4953
Birjukova, L. A. (9855)
Bryll, Grzegorz; et al. 2441,4954

02G05 *Continued*

Buszkowski, Wojciech 10002
Courcelle, B.; et al. (4465)
Deutsch, Michael (2436)
Gorjaga, A. V.; et al. (2813)
Grandjean, Étienne (7225)
Gurevič, Ju. Š.; et al. 10003
Herman, Gabor T. (9990)
Huet, Gerard P. 2442
Hughes, Charles E. 4955
Kirkinskiĭ, A. S.; et al. (2813)
Kołodziej, Reinhold (4935a-b)
Kopiecki, Ryszard; et al. 86
Korec, Ivan; et al. 2443
van Leeuwen, Jan (1725,9991)
Litman, Ami (12526)
Matijasevič, Ju. V. 2444
Muzalewski, M. (10107)
Oppen, Derek C. (4187)
Pinus, A. G. 4956
Rabin, Michael O. 12512
Rackoff, Charles 4957
Rangel, Jose Lucas (4188)
Rautenberg, Wolfgang 2443
Robertson, Edward L. (11850)
Rosiek, Maria; et al. 2441
Sacerdote, George S. 4958
Salomaa, Arto (4203)
Saralski, Bogdan; et al. 86
Słupecki, Jerzy 4954
Turaśvili, T. V. (2415)
Turaśvili, T. V.; et al. 10003
Verhozina, M. I. 4959
Vuillemin, J.; et al. (4165)
Waligóra, Gerald; et al. 86
Weese, Martin (12478)
Zamjatin, A. P. 12513
Ziegler, M. (4971)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 2444,12512
Algebra, No. II 4956,4959
Annual Symposium on Switching and Automata Theory, 15th (1974) (4188)
Cinquantenario della Unione Matematica Italiana, 1922-1972 4914
Stanisław Jaśkowski's achievements in mathematical logic (Proc. 20th Conf. History of Logic, Cracow, 1974) 86
Set theory and hierarchy theory (Proc. Second Conf., Bierutowica, 1975) (12478)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (4187)
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (1725,4165),4957,(11850)

02G10 *Axiomatizability*

Bryll, Grzegorz; et al. 4962
Germano, Giorgio 2445
Hájek, Petr 4960
Jensen, Finn V. (2452)
Maduch, Marian 4961
Parsons, Charles (4914)
Przełęcki, Marian (7195)
Słupecki, Jerzy; et al. 4962
Williams, P. M. (4916)
Wójcicki, Ryszard (54)
Reports of the Seminar on Formal Methodology of Empirical Sciences (March 1973-October 1973) (54)

02G15 *Finite axiomatizability*

Blanc, Georges; et al. 9983
Czajsner, Jerzy 2446
Gniazdowski, Andrzej 2447
Korec, Ivan; et al. (2443)
Makowiecka, H. 2448
Peretjat'kin, M. G. (7243)
Rambaud, Christiane; et al. 9983
Rautenberg, Wolfgang; et al. (2443)

02G20 *Completeness, categoricity, etc.*

Alves, Elias H.; et al. (12490)
Čihačev, S. A. 7239
da Costa, Newton C. A.; et al. (12490)
Courcelle, B.; et al. (4165)
Dragalin, A. G. (66)
Kreisel, G. (73)
Lopez-Escobar, E. G. K.; et al. (67)
Raca, M. F. (68)
Surma, Stanisław J. (9973a-b)
Veldman, W.; et al. (67)
Vuillemin, J.; et al. (4165)
Wagner, Klaus (9163)
▶ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974 (67,73)
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (4165)
Theory of algorithms, and mathematical logic (dedicated to A. A. Markov on the occasion of his 70th birthday) (66)

02G99 *None of the above, but in this section*

Rambaud, Christiane 10004
Wiweger, Antoni (10374)
Zachorowski, Stanisław (65)

02Hxx Model theory

02H05 *Models for theories in classical predicate calculus*

Crossley, J. N. 4963
Deutsch, Michael (2436)
Dokas, L. 4964
Erimbetov, M. M. 10005
Frenkin, B. R. 4965
Friedman, Harvey 4966
Henrard, Paul 4967
Kaiser, Klaus 4968
Kennison, John F. (2758)
Kirin, V. G. 2449
Kogalovskiĭ, S. R. 7240
Korec, Ivan; et al. (2443)
Krauss, Peter 4969
Makowiecka, H. (2448)
Mansoux, Alain 7241
Mleziva, Miroslav 7242
Paillet, Jean-Luc 12514
Peretjat'kin, M. G. 7243
Poizat, Bruno 10006,10007
Rautenberg, Wolfgang (2443)
Schmerl, James H. 2450
Shelah, Saharon 10008
Simmons, H. 87
Weispfenning, Volker 2451
In honor of Stavros M. Plakidis 4964
▶ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 4969
Model theory and algebra 2450
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 10008
Proceedings of the Bertrand Russell Memorial Logic Conference (Uldum, Denmark, 1971) 4967
Proceedings of the Symposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 4963

02H10 *Models for other theories*

Burroni, Albert (12853)
Buszkowski, Wojciech (10002)
Dahn, Bernd (12491a-b)
Engeler, Erwin (9132)
Freyd, Peter (376)
Galuzzi, Massimo (5317)
Gostanian, Richard; et al. (9975)
Hrbacek, Karel; et al. (9975)
Jensen, Finn V. 2452
Makkai, M.; et al. 10009a-b
Manes, Ernest G. (*7578)
McKee, T. A. 4970
Mijoule, Richard 10010
Nadel, Mark E. 2453
Paulos, John 88
Powell, William C. (4978)
Reyes, G. E.; et al. 10009a-b
Stout, Lawrence Neff (2751)
Wójcicki, Ryszard (54)
Ziegler M. 4971
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg (376)
International Symposium on Theoretical Programming (Novosibirsk, 1972) (9132)
Reports of the Seminar on Formal Methodology of Empirical Sciences (March 1973-October 1973) (54)

02H13 *Model constructions*

Blass, Andreas 12515
Ehrenfeucht, A.; et al. 7244
Jensen, D.; et al. 7244
Schmerl, James H. (2450)
Srebrny, M. 89
Weaver, George 12516
Węglorz, B. 2454
Model theory and algebra (2450)

02H15 *Applications to algebra, number theory, etc.* [*See also* 13L05.]

Adler, Allan; et al. 7245
Baudisch, A. 7246
Cherlin, G. L. 90
Crossley, J. N.; et al. (7234)
Hodges, Wilfrid (10014)
Jarden, Moshe 12517
Kiefe, Catarina (10272)
Kiefe, Caterina; et al. 7245
Nebres, B. F. 2455
Nerode, Anil; et al. (7234)
van Praag, Paul (291)
Shelah, Saharon 4972
Weispfenning, Volker (2451)
Zamjatin, A. P. (12513)
Proceedings of the Symposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 2455

02H20 *Nonstandard models*

Berry, Daniel M.; et al. (2566)
Ehrenfeucht, A.; et al. (7244)
Gaifman, Haim 7247
Hurd, A. E. (4985)
Jensen, D.; et al. (7244)
Poizat, Bruno (10007)
Simmons, H. 2456,12518
Stout, Lawrence Neff (10015)
Yavne, Moshe; et al. (2566)
Conference in Mathematical Logic--London '70 7247

02H25 *Applications of nonstandard models* [*See also* 10N15,12L15,26A98, 30A91.]

Button, Robert Warren (13891)
Ehrenfeucht, A.; et al. (7244)
Greenwood, P.; et al. (3845)
Hersh, R.; et al. (3845)
Hristov, Hr. Ja.; et al. (5702)
Jensen, D.; et al. (7244)
Johnson, B. E. (3415)
Lightstone, A. H.; et al. *2457
Macdonald, Alan L. (3078)
Robinson, Abraham; et al. *2457
Todorov, Todor D. (5702)
Probabilistic methods in differential equations (Proc. Conf., Univ. Victoria, Victoria, B. C., 1974) (3845)

02H99 *None of the above, but in this section*

Barwise, Jon *12519

02Jxx Algebraic logic

Vilfan, Boštjan (4852)

02J05 *Boolean algebras, lattices, topologies*

Baker, Kirby A. 12520
Fadini, Angelo (5069)
Iŝeki, Kiyoshi 7248a-d,f,h
Iturrioz, L. (5078),10011
Magari, Roberto (7216)
Rüthing, Dieter (9965)
Rvačov, V. L.; et al. (2418)
Škljarov, L. I.; et al. (2418)
Suchoń, Wojciech 4973
Surma, Stanisław J. (4923)
Tanaka, Shōtarō 7248e,g,i
Tokarz, Marek 10012
Tonĭca, V. S.; et al. (2418)
Collection: Bompiani, Enrico (5069)
Papers presented at the Logic Conference (Opole, 1973) (4923)

02J10 *Algebra of relations*

Froda-Schechter, Micheline 4974
Mathematical logic *7249
Notas de Lógica Matemática, Nos. 29-30 *7249
Notes in mathematical logic, Nos. 29-30 *7249

02J15 *Cylindric and polyadic algebras*

Pinter, Charles 7250
Mathematical logic *7251
Notas de Lógica Matemática, Nos. 1-2-3 *7251
Notes in mathematical logic, Nos. 1-2-3 *7251

02J99 *None of the above, but in this section*

Craig, William *91
Okee, Jekeri (7209)
Suszko, Roman 12521

02Kxx Set theory

Bernays, Paul *2458
Lévy, Azriel 4975
(Müller, Gert H.) *2458
Classes *2458
Sets and classes *2458, 4975

02K05 *Consistency and independence results*

Ash, C. J. 92
Boffa, Maurice 10013
Cohen, Paul E. 12522
(Cohen, Paul E.) *4977
Hajnal, András; et al. (12528)
Hanf, William 7252
Hodges, Wilfrid 10014
Jensen, Ronald B.; et al. 7253
Johnsbråten, Håvard; et al. 7253
Lake, John 93
Levin, A. M. 7254
Mahé, Louis 7255
Máté, Attila; et al. (12528)
Roguski, S. 4976
Štěpánek, Petr (2462)
Takeuti, Gaisi; et al. *4977
Tall, F. D. (4987)
Węglorz, B. 94
Zaring, Wilson M.; et al. *4977
Collection: Mostowski, Andrzej (IV) 7253
General topology and its relations to modern analysis and algebra, III (4987)
Logic Colloquium '73 (Bristol, 1973) (12528)

02K10 *Nonclassical set theories*

Bellman, Richard; et al. (2417)
Bencivenga, Ermanno 12523
Čuda, Karel (2461)
Giertz, Magnus; et al. (2417)
(Landsburg, Steven) *7257
Lawvere, F. William 7256,*7257
Makkai, M.; et al. (10009a-b)
Marquetty, A. (49)
Mlček, Josef; et al. (2460)
Powell, William C. (4978)
Reyes, G. E.; et al. (10009a-b)
Shore, Richard A. (7229)
Sochor, A. 95,(2464)
Sochor; et al. (2460,2463)
Štěpánek, Petr (2462)
Stout, Lawrence Neff 10015
Vopěnka, Petr; et al. (2463)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 7256

02K15 *Axiomatics*

Blass, Andreas (2466)
Boffa, Maurice (10013)
Cohen, Paul E. (12522)
(Cohen, Paul E.) (*4977)
Čuda, Karel 2461
Diaconescu, Radu (2757)
Friedman, Harvey (4966)
Green, Judy 2459
Hájek, P.; et al. 10016
Hanazawa, Masazumi 96
Mlček, Josef; et al. 2460
Müller, Horst (7237)
Powell, William C. 4978
Rosenthal, John W. 2465
Rucker, R. V. B. 12524
Sochor, Antonín 2464
Sochor, Antonín; et al. 2460,2463
Štěpánek, Petr 2462
Takahashi, Moto-o 97
Takeuti, Gaisi; et al. (*4977)
Ville, Françoise 4979
Vopěnka, Petr; et al. 2463,(10016)
Zaring, Wilson M.; et al. (*4977)
Conference in Mathematical Logic--London '70 97
Generalized recursion theory (Sympos., Oslo, 1972) 4979

02K20 *Axiom of choice and equivalent propositions (Zorn's Lemma, etc.)* [*See also* 04A25.]

Boffa, Maurice (10013)
Felgner, U. 10017,12525
Flannagan, T. B. 4980
Hodges, Wilfrid (10014)
Levin, A. M. (7254)
Litman, Ami 12526
⊨ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 4980
Sets and classes 12525

02K25 *Continuum hypothesis, generalized continuum hypothesis* [*See also* 04A30.]

Srebrny, M. (89)

02K30 *Descriptive set theory; Borel classifications, Suslin schemes, etc.* [*See also* 04A15, 28A05,54H05.]

Aczel, Peter (12477)
Ash, C. J. (92)
Busch, Douglas R. 7258
Jensen, Ronald B.; et al. (7253)
Johnsbråten, Håvard (7253)
Kechris, Alexander S. 7259
Ketonen, Jussi 7260
V'jugin, V. V. (10000)
Collection: Mostowski, Andrzej (IV) (7253)
Proceedings of the Scandinavian Logic Symposium, Third (Univ. Uppsala, Uppsala, 1973) (12477)

02K35 *Large cardinals and ordinals (inaccessible, etc.)*

Blass, Andreas 2466
Boos, William 2467
Devlin, Keith J. 4981
Garland, Stephen J. 4982
Lake, John (93)
Nyberg, Anders M. (7201)
Paris, J. B. (7264)
Weaver, George (12516)
Axiomatic set theory (Proc. Sympos. Pure Math., Vol. XIII, Part II) 4982
⊨ ISILC Logic Conference (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) 2467,4981

02K99 *None of the above, but in this section*

Malyhin, V. I. (13839)

04—XX SET THEORY

Erdős, P.; et al. 2469
Milner, E. C.; et al. 2469
Rado, R. 2469

04-01 *Elementary exposition (collegiate level)*

de Bruijn, N. G. 4983
Demaria, Davide Carlo (*6053a-b)
Kerby, W. 4984
Libois, Paul 7261
Cinquantenario della Unione Matematica Italiana, 1922-1972 7261

04-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Cavallo, Roger; et al. 10018
Hellerman, Herbert; et al. 10018

04-06 *Collection of papers; proceedings of conferences*

(Bernays, Paul) (*2458)
(Marek, W.) (*2412)
(Mostowski, Andrzej) (*2412)
(Müller, Gert H.) (*2458)
(Srebrny, M. (*2412)
(Zarach, A.) (*2412)
Classes (*2458)
Collection: Mostowski, Andrzej (*2412)
Conference on Set Theory and Hierarchy Theory, Second (Bierutowice, 1975) (*2412)
Hierarchy theory (*2412)
Set theory (*2412)
Set theory and hierarchy theory (Proc. Second Conf., Bierutowice, 1975) (*2412)
Sets and classes (*2458)

04A05 *Relations, functions* [*See also* 08A05.]

Bednarek, Alexander R.; et al. (13830)
Blass, Andreas (12515)
Froda-Schechter, Micheline (4974)
Hurd, A. E. 4985
Norris, Eugene M.; et al. (13830)
Pultr, Aleš 4986
Topencarov, V. V. 7262

04A10 *Transfinite numbers*

Buchholz, W. (72)
Hickman, J. L. 98,7263
Litman, Ami (12526)
Paris, J. B. 7264
Pfeiffer, Helmuth (*7212)
⊨ ISILC Proof Theory Symposion (Proc. Internat. Summer Inst. and Logic Colloq., Kiel, 1974) (72)

04A15 *Descriptive Set Theory; Borel classifications, Suslin schemes, etc.* [*See also* 02K30,28A05,54H05]

Alster, K.; et al. (3652)
Beauchemin, Pierre; et al. 7265
Čoban, M. M. 7266
Dellacherie, C.; et al. (14084)
Eidswick, J. A. (11287)
Fedorčuk, V. V. (13827)
Hajnal, A. (6061)
Kaniewski, J. 2468
Kinokuniya, Yoshio (5414)
Kucia, Anna; et al. (1167)
Laver, Richard 10019
Louveau, Alain (100)
McLaughlin, T. G. 10020
Mendez, C. G. (5412)
Meyer, P. A.; et al. (14084)
Negrepontis, S. (3657)
Przymusinski, T.; et al. (3652)
Reyes, Gonzalo E.; et al. 7265
le Riche, L. R. 99
Robinson, S. M. (13828)
Šakenko, N. I. 7267
Szymański, Andrzej; et al. (1167)
Tall, F. D. 4987,(11264)
Willmott, Richard C. 12527
General topology and its relations to modern analysis and algebra, III 4987
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (6061)
Séminaire de Probabilités, IX (14084)
Symposia Mathematica Vol. XVII (3657)

04A20 *Combinatorial* [*See also* 05A05.]

Baumgartner, James E. 4988
Erdős, P.; et al. 2469
Foster, Caxton C.; et al. 101
Hajnal, András; et al. 12528
Ketonen, Jussi (7260)
Kurepa, R. Duro 12529
Louveau, Alain 100
Máté, Attila 12528
Milner, E. C. (7270)
Milner, E. C.; et al. 2469
Nash-Williams, C. St. J. A. 10021
Nešetřil, Jaroslav; et al. 10027
Normann, Dag (102)
Pelletier, Donald H. 7268
Prikry, Karel 4989a-b
Rado, Richard 10022
Rav, Y. (4991)
le Riche, L. R. (99)
Rödl, Vojtěch; et al. (10027)
Tall, F. D. (4987)
Taylor, Alan D. 12530
Tenney, Richard L.; et al. 101
Węglorz, B. (94,2454)
Weinstein, J. M. 4990
Cinquantenario della Unione Matematica Italiana, 1922-1972 12529
General topology and its relations to modern analysis and algebra, III 4987
Logic Colloquium '73 (Bristol, 1973) 12528
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (7270)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 10022

04A25 *Axiom of choice and equivalent propositions (Zorn's Lemma, etc.)* [*See also* 02K20.]

Kasahara, Shouro (13888)
Rav, Y. 4991

04A30 *Continuum hypothesis, generalized continuum hypothesis* [*See also* 02K25.]

Hajnal, A.; et al. (6062)
Juhász, I.; et al. (6062)
Normann, Dag 102
Salomaa, Arto (4203)
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) (6062)

05—XX COMBINATORICS, GRAPH THEORY {For finite fields, see 12Cxx.}

Iri, Masao; et al. (4641)
Tomizawa, Nobuaki; et al. (4641)

05-01 *Elementary exposition (collegiate level)*

Binz, Jany Cajetan 12531
Cormier, Romae J.; et al. 103
Eggleton, Roger B.; et al. 103
Gerstenkorn, Tadeusz; et al. (*3775)
Srödka, Tadeusz; et al. (*3775)

05-02 *Advanced exposition (research surveys, etc.)*

Cameron, Peter J. *7269
Erdős, P. 10023
Erdős, Paul; et al. *2470
(Kleitman, D. J.) *2470
(Prohorov, Ju. V.) *2470
Spencer, Joel *2470
(Steckin, B. S.) *2470
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) 10023

05-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Baartmans, A.; et al. (2494)
Danhof, K.; et al. (2494)
Frank, G.; et al. (2494)
Goldberg, Karl; et al. (2476)
Hayasaka, Takanori; et al. 104,105
Leighton, Frank Thomson; et al. (2476)
Newman, Morris; et al. (2476)
Saito, Sadao; et al. 104,105
Zuckerman, Susan Lana (2476)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975 (2494)

05-06 *Collections of papers; proceedings of conferences*

(Casse, Louis R. A.) *10024
(Collatz, L.) *106
(Hoffmann, F.) *2471
(Lesniak, L.) *2471
(Meinardus, G.) *106
(Mullin, R.) *2471
(Reid, K. B.) *2471
(Stanton, R.) *2471
(Wallis, Walter D.) *10024
(Werner, H.) *106
Australian Conference on Combinatorial Mathematics, Fourth (Univ. Adelaide, 1975) *10024
Combinatorial mathematics, IV (Proc. Fourth Australian Conf., Univ. Adelaide, Adelaide, 1975) *10024
Combinatorics *106,*2471
Computing *2471
Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) *2471
Graph theory *2471
Graphentheorie *106
Kombinatorik *106
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) *106
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) *2471
Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) *2471
Tagung über Numerische Methoden der Graphentheorie und Kombinatorik (Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) *106

05Axx Classical combinatorial problems

05A05 *Combinatorial choice problems; subsets, representatives*

Botlík, Oldřich 10025
Chang, Lena; et al. 4992
Davies, Joan 2472
Daykin, D. E. 4994
Daykin, D. E.; et al. 4993
Dewdney, A. K. 10026
Frankl, P. 2473
Godfrey, Jean; et al. 4993
Hayasaka, Takanori; et al. (104)
Hilton, A. J. W.; et al. 4993
Kleitman, D. J.; et al. 4995
Kwiatkowski, D. J.; et al. 4995
Milner, E. C. 7270
Nash-Williams, C. St. J. A. (10021)
Nathanson, Melvyn B. 12532
Nešetřil, Jaroslav; et al. 10027
Poe, Arthur; et al. 4992
Rado, Richard (10022)
Rödl, Vojtěch 10027
Saito, Sadao; et al. (104)
Silberger, D. M. 12533
Spencer, Joel 2474
Steckin, B. S. 12534
Suškov, Ju. A. (2549)
Yao, Andrew Chi Chih 10028
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 7270
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (10022)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 4992
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) 10025
Soviet-Japanese Symposium on Probability Theory and Mathematical Statistics, Third (Tashkent, 1975) 12534

05A10 *Factorials, binomial coefficients, combinatorial functions*

Bicknell-Johnson, Marjorie; et al. 12535
Bolotnikov, Ju. V.; et al. (3793)
Carlitz, L. 7271
Delsarte, Philippe 107
Donaghey, Robert 2475
Foulkes, H. O. 4996
Goldberg, Karl; et al. 2476
Hoggatt, V. E., Jr. 12535
Leighton, Frank Thomson; et al. 2476
Menon, K. V. 10029
Mutafčiev, Ljuben R. (8787)
Newman, Morris; et al. 2476
Sačkov, V. N.; et al. (3793)
Singmaster, David (224)
Tarakanov, V. E. (3793)
Thomas, Glânffrwd P. 108
Zuckerman, Susan Lana 2476
Mathematics and mathematical education (Proc. Conf., Vidin, 1973) 8787
Permutations (Actes Colloq., Paris, 1972) 4996

05A15 *Combinatorial enumeration problems, generating functions*

Abramson, Morton 2477,7272
Ahuja, J. C.; et al. 2478
Azatjan, A. A. (14434)
Azatjan, A. A.; et al. (10030)
de Bruijn, N. G. 12536
Carlitz, L. 4997
Enneking, E. A.; et al. 2478
Etringer, Roger C.; et al. 109
Gilpin, Michael 2479
Hitov, Hristo 10031
Hodel, Margaret J. 2480
Jackson, D. M.; et al. 2481
Jackson, Douglas E.; et al. 109
Kesava Menon, P. 2482
Kleitman, Daniel J.; et al. 2483
Kreweras, Germain 10032,(10089)
Mank, Ad 10033
Mineev, M. P.; et al. 2484
Neggers, Joseph 7273,7274
Nijenhuis, Albert 4998
Pavlov, A. I.; et al. 2484
Reilly, J. W.; et al. 2481
Roselle, D. P. 7275
Rothschild, Bruce R.; et al. 2483
Sasaki, Siro 7276
Spencer, Joel H. 2483
Spiegel, Eugene 2485
Stanley, Richard P. 111
Szirtes, Thomas (10122)
Tamrazjan, R. A. 10030
Tanny, Stephen M. 10034
White, Dennis E.; et al. 2486
Williamson, S. G. 2486
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 12536

05A17 *Partitions* [*See also* 10A45.]

Andrews, George E. (7363,7364a-b)
Balas, Egon; et al. 2487
Chen, C. C.; et al. 2488
Christofides, Nicos; et al. (6948)
Daykin, D. E. 2488
Grassl, R. M.; et al. 2490
Gupta, Hansraj 2489
Hillman, A. P.; et al. 2490
Korman, S.; et al. (6948)
Padberg, Manfred W.; et al. 2487
Recski, András 10035
Combinatorial programming: methods and applications (Proc. NATO Advanced Study Inst., Versailles, 1974) 2487

05A19 *Combinatorial identities*

Bartoszyński, Robert (3792,14082)
Carlitz, L.; et al. 2491
Fenger, Kirsten; et al. 7277
Hämmerling, Leo 10036
Hilden, J.; et al. 7277
Hirschhorn, M. D. 10037
Klamkin, M. S. 2491
Petru, Carol 2492,2493a-b

05A20 *Combinatorial inequalities*

Godunova, E. K.; et al. 12537
Levin, V. I.; et al. 12537
Sarvanov, V. I. 10038

05A99 *None of the above, but in this section*

Erdős, P. 7278
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 7278

05Bxx Designs and configurations

05B05 *Block designs* [*See also* 62Kxx]

Agrawal, H. L.; et al. (3993)
Baartmans, A.; et al. 2494
Baker, Ronald D. 4999
Bozorov, E. E. 5000
Danhof, K.; et al. 2494
Dehon, Michel 10039
Dey, A.; et al. 12538
Driessen, L. M. H. E.; et al. (7106)
Frank, G. 2494
Frederix, G. H. M.; et al. (7106)
Garman, B. L.; et al. (123)
Griffiths, Alan D.; et al. 7279
Hamada, N.; et al. 5001
John, Peter W. M. 7280
Kageyama, Sanpei 5002,5003,(6400)
Kingsley, R. A.; et al. 5004

05B05 *Continued*

Köhler, Egmont 5005
Lindner, C. C.; et al. 12539
Lindner, Charles C. 2495,5006
van Lint, J. H. (7106)
Maduram, D. M. 7281
Markova, E. V. 10040
Mavron, Vassili C. 7279
McCarthy, D. 5007
McCarthy, D.; et al. 2496,2497
Midha, C. K.; et al. 12538
Mullin, R. C.; et al. 2496,2497
Nigam, A. K. (14256a-b)
Norman, C. W. 7282
Ohmori, H.; et al. 5001
Phelps, Kevin T. 10041
Quackenbush, Robert W. (12946)
Rafter, J. A.; et al. (6401)
Ray-Chaudhuri, D. K. 10042
Ringeisen, R. D.; et al. (123)
Rosa A.; et al. 12539
Schellenberg, P. J.; et al. 2496,2497
Seiden, E. (6401)
Sharma, K. L.; et al. (3993)
Stanton, R. G. 10043
Stanton, R. G.; et al. 2496,2497,5004
Tannenbaum, Peter (10468)
van Tilborg, H. C. A. 10044
Vanstone, S. A. 5008
Vanstone, S. A.; et al. 2496,2497
White, A. T.; et al. (123)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 10042
Combinatorial methods for experiment planning 10040
Discrete mathematics 10044
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) 5005
Proceedings of the Manitoba Conference on Numerical Mathematics, 1971 5004
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 2496,2497
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory and Computing, Fifth (Florida Atlantic Univ., Boca Raton, Fla., 1974) 5008
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2494

05B10 *Difference sets (number-theoretic, group-theoretic, etc.)*

Berman, Gerald (14470)
Čecett, G. V.; et al. (5107)
Cooper, Joan 10045
Emelicev, V. A.; et al. (5107)
Ganley, Michael J. 5009
Kononenko, A. M.; et al. (5107)
Lam, Clement W. H. (10182)
Lehmer, Emma 5010
Mann, Henry B. (*12703)
Spence, Edward 12540

05B15 *Orthogonal arrays, Latin squares*

Arkin, Joseph; et al. 12541
Drake, David A.; et al. 5011
Evans, Trevor 2498
Hale, Mark P., Jr.; et al. 5011
Hoggatt, Verner E., Jr.; et al. 12541
Jucys, A.-A. A. 7283
Longyear, Judith Q. 5012
O, Chŏng Hyŏn 7284
Owens, P. J. 7285
Pulleyblank, W. R. 7286
Straus, E. G.; et al. 12541
Szajowski, K. 5013
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 7286

05B20 *Matrices (incidence, Hadamard, etc.)*

Bicknell, Marjorie; et al. 5014
Bose, R. C.; et al. 7287
Bridges, W. G.; et al. 7287
Hoggatt, V. E., Jr.; et al. 5014
Little, C. H. C. 12542
Longyear, Judith Q. 7288
Sakarovitch, M. 7289
Shrikhande, M. S.; et al. 7287
Wallis, Jennifer Seberry 12543

05B25 *Finite geometries*

Bolker, Ethan D. 112
Brown, Julia M. Nowlin 12544
Erdős, Paul 113
Hale, Mark P., Jr. 10046
Hamada, N.; et al. (5001)
Heise, Werner; et al. 114
Kárteszi, F. (*11156)
Killgrove, R. B.; et al. 12545
Kuppuswamy Rao, K. (8441)
Mielants, W. 12546
Milne, Ed; et al. 12545
Narayana Rao, M. L.; et al. (8441)
Ohmori, H.; et al. (5001)
Parker, E. T.; et al. 12545
Payne, S. E.; et al. 7290a-b
Seidel, J. J. *10047
Seybold, Hans 114
Thas, J. A. 7290a-b
(Vekerdi, L.) (*11156)
de Witte, Paul 10048
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) 12544,12545

05B30 *Other designs, configurations*

Bandt, Christoph 7291
Beker, Henry; et al. 10049
Blake, I. F. 10050
Dirksen, P. H.; et al. 10052
Geramita, Anthony V.; et al. 12547-12552
Geramita, Joan Murphy; et al. 12547,12548
Gleason, Andrew M. (12354)
Hall, Marshall, Jr. 10051
Hayasaka, Takanori; et al. (105)
Hoffman, F.; et al. 12554
Huang, Charlotte; et al. 7292
Lindner, Charles C. 2499
Panov, A. A. 5015
Piper, Fred; et al. 10049
Rosa, Alexander; et al. 7292
Saito, Sadao; et al. (105)
Schellenberg, P. J.; et al. 12554
Stanton, R. G.; et al. 10052
Stiffler, J. J.; et al. 10050
Vanstone, S. A.; et al. 12554
Wallis, Jennifer Seberry 12553
Wallis, Jennifer Seberry; et al. 12547-12552
Wolfe, Warren 12555
Wolff, Karl Erich 5016
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 10051,(12354)
Combinatorial mathematics, IV (Proc. Fourth Australian Conf., Univ. Adelaide, Adelaide, 1975) 10052
Report of Algebra Group (Queen's Univ., Kingston, Ont., 1973-1974) 12547,12549

05B35 *Matroids, geometric lattices*

Blackburn, John E.; et al. 7293
Brualdi, R. A. 115
Bruno, J.; et al. 2500
Brylawski, Tom 7294
Cheung, Alan; et al. (10290)
Crapo, Henry H.; et al. 7293,(10290)
Hall, Japheth, Jr. 5017
Higgs, Denis A.; et al. 7293
Las Vergnas, Michel 5018,7295
Murty, U. S. R. 10053
Revjakin, A. M. 5019
Richardson, W. R. H. 7296
Shatoff, Larry D. 7297
Simões-Pereira, J. M. S. 7298
Todd, Michael J. 7299
Weinberg, L.; et al. 2500
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 5018
Proceedings Louisiana Conference on Combinatorics, Graph Theory and Computing (1971), Second 10053
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Fourth (1973) 7296
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) 115

05B40 *Packing and covering* [*See also* 10E30,52A45.]

Balas, Egon; et al. 5020
Dirksen, P. H.; et al. 2501
Padberg, Manfred W.; et al. 5020
Popescu, Dragoş 116
Stanton, R. G.; et al. 2501
Witsenhausen, H. S. 5021
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 2501

05B45 *Tessellation and tiling problems*

Alpern, Steven 2502
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2502

05B99 *None of the above, but in the section*

Mathon, Rudolf 2503
Proceedings of the Conference on Algebraic Aspects of Combinatorics (Univ. Toronto, Toronto, Ont., 1975) 2503

05Cxx Graph theory (For applications of graphs, see 94A26.)

Bondy, J. A.; et al. *117
Braemert, D. 118
Johnston, H. C. (11838)
Murty, U. S. R.; et al. *117
Papadimitriou, Christos H. (4613)
Bibliography: Graph theory 118

05C05 *Trees*

Bhave, V. N.; et al. 5025
Binz, Jany Cajetan 5022
Cockayne, E. J.; et al. 119
Edelberg, M.; et al. 120
Garey, M. R.; et al. 120
Giles, William B. 121
Graham, R. L. 120
Green, Christopher D. 5023
Hakimi, S. L.; et al. 2507
Hedetniemi, S. T.; et al. 119
Kameda, T. 12556
Kleitman, Daniel J. 5024
Korec, Ivan; et al. (2443)
Kundu, Sukhamay 2504
Kundu, Sukhamay; et al. 5025
Las Vergnas, Michel 7300
Li, Sok Hui (9871)
Lovász, L.; et al. 5026
Luccio, Fabrizio; et al. 2505
Maksimovič, N. G. 2506
Pagli, Linda; et al. 2505
Patrinos, A. N.; et al. 2507
Payan, C.; et al. 5027
Pelikán, J.; et al. 5026
Rautenberg, Wolfgang; et al. (2443)
Sakarovitch, M.; et al. 5027
Sampathkumar, E.; et al. 5025
Slater, Peter J. 10054
Stahl, Saul 122
Tarjan, Robert Endre 12557
Collection:
Rényi, Alfréd (II) 5026
Colloque sur la Théorie des Graphes (Paris, 1974) 5027
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 5023
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 10054

05C10 *Topological graph theory, embedding* [*See also* 55A15,55A25.]

Albertson, Michael O. 12558
Alpert, Seth R.; et al. 7301
Bean, Dwight R. (4951,4952)
Berstein, L. S.; et al. 125
Even, Shimon; et al. 2508
Garman, B. L.; et al. 123
Gliviak, Ferdinand 12559
Gross, Jonathan L.; et al. 7301
Guy, Richard K.; et al. 10055
Homenko, M. P. 124
Homenko, M. P.; et al. 10056,10057,(13927)

05C10 *Continued*

Kameda, T. 5028
Kuřčík, V. M.; et al. 125
Kuz'menko, V. O.; et al. 10057,10058
Lisjak, V. V.; et al. 125
Melihov, A. N.; et al. 125
Nguyen Huy Xuong 12560
Ostroverhiĭ, M. O. 10059
Ostroverhiĭ, M. O.; et al. 10056-10058
Ringeisen, R. D.; et al. 123
Ringel, Gerhard; et al. 10055
Rubin, Frank 2509
Sit, Cho Wei 126
Stahl, Saul; et al. 10060
Tarjan, Robert Endre; et al. 2508
Vivrot, T. M.; et al. (13927)
White, A. T.; et al. 123,10060
Topological aspects of graph theory 10056,(13927)
ϕ-transformations of graphs 124,10057-10059

05C15 *Chromatic theory of graphs and maps*

Appel, K.; et al. 12561
Arditti, J. C.; et al. 2510
Belaga, E. G. 127
Berge, Claude; et al. 10061
Bermond, J.-C. 5029
Bollobás, Béla; et al. 128
Cameron, Peter J. 12562
Chen, C. C.; et al. 10062
Chvátal, V. 129
Daykin, D. E.; et al. 10062
Donec, G. A. 130
Erdős, Paul; et al. 128,5030
Faudree, R. J.; et al. 5030
Fleischner, Herbert 131
Garey, M. R.; et al. (14439)
Geller, Dennis P. 10063
Hajnal, András; et al. (12528)
Haken, W.; et al. 12561
Heinrich, Katherine 132
Johnson, D. S.; et al. (14439)
Kainen, Paul C. 5031
Kasteleyn, P. W.; et al. 5032
Kolen, A. W. J.; et al. 2511
Korsunov, A. D.; et al. 10064
Las Vergnas, Michel; et al. 10061
Máté, Attila; et al. (12528)
Narayanan, H.; et al. 135
Nešetřil, Jaroslav; et al. 133
Nincak, Ja.; et al. 10064
Penaud, J. C. 2512
Richmond, L. B.; et al. 5032
Rödl, Vojtěch; et al. 133
Rousseau, C. C.; et al. 5030
Schelp, R. H.; et al. 5030
Schöne, Wolfgang 7302
(Seinsche, D.) 2510
Simmons, Gustavus J. 7303
Simões-Pereira, J. M. S. 7304
Sterboul, F. 134
Vartak, M. N.; et al. 135
de Werra, D. 12563
de Werra, D.; et al. 2510
Wilbrink, H. A.; et al. 2511
Colloque sur la Théorie des Graphes (Paris, 1974) 2512
Colloque sur la Théorie des Jeux (Bruxelles, 1975) 10061
Discrete mathematics 2511
Logic Colloquium '73 (Bristol, 1973) (12528)
Mathematical methods for the study and optimization of systems (Proc. Sem., Kiev-Lvov, 1970/1971) 130
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 134
Proceedings of the South-eastern Conference on Combinatorics, Graph Theory, and Computing, Third (1972) 5031

05C20 *Directed graphs (digraphs)*

Alspach, Brian; et al. 10065
Amitsur, S. A. 10330
Baker, Ronald 2513
Bermond, J.-C.; et al. 5033
Brualdi, R. A. (115)
Chvátal, V.; et al. 2514
Cvetković, D. M. 10066
Druffel, L. E.; et al. 2515
Ferro, Maria 136
Fridman, G. Š. 137
Hartnell, B.; et al. 138
Kampen, G. R. 5034
Kodratoff, Y.; et al. 5033
Lovász, L.; et al. 2514
Marcu, Dănuț 5035
Mason, David W.; et al. 10065
Meyer, John F. 7305
Mikola, Milan 12564
Milgram, M.; et al. 138
Pullman, Norman J.; et al. 10065
Schmidt, D. C.; et al. 2515
Simpson, J. E.; et al. 2515
Tinhofer, G. 2516
Urakov, H. 139-141
Vondrâček, Prokop 142
Colloque sur la Théorie des Graphes (Paris, 1974) 138
Discrete mathematics 10066
Graph theory and computing 7305
Hypergraph Seminar (Proc. First Working Sem., Ohio State Univ., Columbus, Ohio, 1972) 2514
Proceedings of the South-eastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2513,2515
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) (115)

05C25 *Graphs and groups*

Bass, Hyman (7634)
Dixmier, Suzanne; et al. 2517
Gardiner, Anthony 143,144
Hirgiĭ, N. I.; et al. 5037
Holton, D. A. 2518,10067
Kohov, V. A. 12565
Neumann, B. H. 7306
Randić, Milan 5036
Rutkas, A. G.; et al. 5037
Sims, J. A.; et al. 10067
Watkins, Mark E. 10068
Zara, François; et al. 2517
Zelinka, Bohdan 145
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 2518

05C30 *Enumeration of graphs and maps*

Altshuler, A.; et al. (11174)
Borie, Philippe 5038
Brouwer, A. E. 5039
Burštein, M. I.; et al. 5040
Cowan, D. D.; et al. 2519
(Entringer, R. C.) 5039
(Erdős, P.) 5039
Faradžev, I. A. 12566
Jackson, D. M.; et al. 10069
Klipker, I. A.; et al. 5040
Martelli, Alberto (12392)
McAvaney, K. L. 12567
Mullin, R. C.; et al. 2519
Reilly, J. W.; et al. 10069
Skupień, Zdzisław 146
Sridharan, M. R. 2520
Stanton, R. G.; et al. 2519
Steinberg, L. (11174)
Strok, V. V. 2521
Telemtaev, M. M. 147
Venkatachalam, C. V. 10070
Combinatorial mathematics, IV (Proc. Fourth Australian Conf., Univ. Adelaide, Adelaide, 1975) 12567
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) (12392)
Proceedings of the South-eastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2519
ϕ-transformations of graphs 2521

05C35 *Paths and extremal problems*

Arlazarov, V. L.; et al. 148
Bhat, Vasanti N.; et al. 7307
Bollobás, Béla; et al. 149
Burr, S. A.; et al. 7308
Cerf, V. G.; et al. 150
Chartrand, Gary; et al. 151,7309
Chen, C. C.; et al. 10071
Cowan, D. D.; et al. 150
Dankel, Thad, Jr. 2522
Daykin, D. E. 10071
Dixon, E. T.; et al. 10072
Doyen, Jean; et al. 5041
Erdős, P.; et al. 7308
Faradžev, I. A.; et al. 148
Faudree, R. J.; et al. 152,153,12568
Gabow, Harold N. 10073
Goodman, S. E.; et al. 10072
Grant, Douglas D.; et al. 5043a-b
Harary, Frank; et al. 149,151,2523
Hobbs, Arthur M. 5042
Holton, D. A.; et al. 5043a-b
Jacob, Vasil 154
Kapoor, S. F. 7307
Koh, K. M.; et al. 12569
Kozyrev, V. P. 10074
Lesniak, Linda 7310,7311
Lick, Don R.; et al. 151
Linial, Nathan 2524
Little, Charles H. C.; et al. 5043a-b
Lovasz, L.; et al. 7308
Mader, W. 2525,7312
Mallion, R. B.; et al. 2523
Minoux, Michel 5044
Mullin, R. C.; et al. 150
Parsons, T. D. 2526
Peteanu, Vasile 10075
Plesník, Ján 10076
Polimeni, Albert D.; et al. 7309
Roman, Steven 155
Sanders, David 2527
Schelp, R. H.; et al. 152,153,12568
Singmaster, David 10077
Skupień, Zdzisław 5045
Stanton, R. G.; et al. 150
Stewart, M. James; et al. 7309
Teh, H. H.; et al. 12569
Thomassen, Carsten 10078
Tomová, Eliška 2528
Uskov, A. V.; et al. 148
Van Diest, Viviane; et al. 5041
Vidyasankar, K.; et al. 5046
Walther, H. 12570
Win, Sein 2529
Wright, E. M. 12571
Younger, D. H.; et al. 5046
Zelinka, Bohdan 156
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) 12570
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) 10077
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) 156,2528,5045
Studies in discrete mathematics 148

05C99 *None of the above, but in this section*

Akiyama, Jin; et al. 157,2538
Baranyai, Zs. 5047
Beard, Jacob T. B., Jr.; et al. 2530
Bergmann, Horst 158
Bollobás, B.; et al. 159,12572
Bollobás, Béla 12573
Bondy, J. A.; et al. 2531
de Bruijn, N. G. 2532
Bryll, Grzegorz 7313
Burns, R. N.; et al. 160
Caccetta, L. 10079
Cameron, Peter J. 10080
Čerepov, O. F. 10081
Černý, Ján 2533
Chaĭ, S. M. *5048
Choudum, S. A.; et al. 12579
Chvátal, V.; et al. 2531
Clapham, C. R. J. 7315
Clapham, C. R. J.; et al. 7314
Cockayne, E. J.; et al. 161
Coĭ, S. *5048
Cvetković, D. M.; et al. 5049
Cvetković, Dragoš M. 2534
D'Amore, Bruno 162
Daykin, D. E.; et al. 159
Dębosz, Jerzy A. 165
Deza, M. 10082
Donec, G. A. 163
Doob, Michael 12574
Dorris, Ann D. 2530
Erdős, P.; et al. 159,12572
Fleischner, Herbert; et al. 2535
Gabow, Harold N. 12575
Gardiner, A. 7316
Gavriljuk, O. M. 167
Gavriljuk, O. M.; et al. 166
Geldmacher, R. C.; et al. 12576
Gliviak, Ferdinand 164,2536,12577
Grünbaum, Branko; et al. 2544b
Gutman, I.; et al. 5049
Haff, C. E.; et al. 160
Hakimi, S. L.; et al. 2546
Hamada, Takashi; et al. 157,2537,2538
Hammond, P. 2540
Hammond, P.; et al. 2539
Handkiewicz, Andrzej; et al. 165
Harary, Frank; et al. 2541
Hobbs, Arthur M.; et al. 2535
Homenko, M. P.; et al. 166
Hwang, F. K. 10083
Jeurissen, R. H. 168
Jung, H. A. 2542
Karelin, V. P.; et al. 5050
Karivaratharajan, P.; et al. 7317a-b
Kleitman, D. J.; et al. 7314
Koren, Michael 169
Kotzig, Anton 7318
Kramer, Florica 170
Lake, John 7319
Las Vergnas, M. 171
Levi, G. 2543
Lick, Don R. 172
Lick, Don R.; et al. 5051
Liu, C. S.; et al. 12576
Lorimer, P. J.; et al. 161
Lovász, L. 7320
Malkevitch, Joseph; et al. 2544b
Manvel, Bennet 12578
Martin, Pierre 2544a
McDiarmid, C. J. H. 7321

05C99 *Continued*

Minoux, Michel 5052
Mironov, B. N.; et al. 5050
Moore, John I., Jr.; et al. (5060)
Nebeský, Ladislav 2545
Nešetřil, Jaroslav; et al. 173
Nishizeki, Takao; et al. 10084
Claru, E. 5053
Pannone, Maria A. 174
Parthasarathy, K. R.; et al. 12579
Patrinos, A. N.; et al. 2546
Pfaltz, John L. 2547
Rao, S. B. 12580
Rödl, Vojtěch, et al. 173
Roussopoulos, Nicholas D. (12397)
Rybarczyk, Andrzej; et al. 165
Saito, Nobuji; et al. 10084
Schneider, Michel 5054
Schürger, K. 10085
Sedláček, Jiří 175,5055
Sekanina, Milan 10086
Sheehan, John 176
Smith, D. H.; et al. 2539
Spencer, Joel H. 7322
Sugiyama, Kazuo 2548
Sunday, J. G. 177
Suškov, Ju. A. 2549
Syszło, Maciej M. 7323
Tainiter, Melvin 7324
Thomassen, Carsten; et al. 2541
Thulasiraman, K.; et al. 7317a-b
Trotter, William T., Jr.; et al. (5060)
Waller, D. A. 2550
Weiss, Richard M. 178
Wessel, W. 2551
White, Arthur T.; et al. 5051
Wohlgemuth, Andrew (9714)
Yap, H. P. 10087
Yoshimura, Izumi; et al. 157,2537,2538
Zelinka, Bohdan 5056,7325
Colloque sur la Théorie des Graphes (Paris, 1974) 171,10082
Discrete mathematics 2532
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) 5047
Mathematical methods for the study and optimization of systems (Proc. Sem., Kiev-Lvov, 1970/1971) 163
Papers presented at the Logic Conference (Opole, 1973) 7313
Proceedings of the British Combinatorial Conference, Fifth (Univ. Aberdeen, Aberdeen, 1975) 2550
Proceedings of the South-eastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 12576
Topological aspects of graph theory 166
φ-transformations of graphs 167

06—XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES

06-01 *Elementary exposition (collegiate level)*

Brunat, José M.* 179
Meystre, Günter 10088
Rüthing, Dieter 7326

06-02 *Advanced exposition (research surveys, etc.)*

(Baumann, V.) *5057
(Huber, H.) *5057
(Kuz'min, V. B.) *5057
(Ovčinnikov, S. V.) *5057
Pfanzagl, Johann *5057

06-06 *Collections of papers; proceedings of conferences*

(Kalmbach, Gudrun) *7327
(Saliĭ, V. N.) *2552,*5058
Lattice Theory Conference (Ulm, 1975) *7327
Lattices *2552,*5058
Ordered sets and lattices, No. 2 *5058
Ordered sets and lattices, No. 3 *2552
Proceedings of the Lattice Theory Conference (Ulm, 1975) *7327
Sets *5058

06A10 *Partial order*

Bogart, Kenneth P.; et al. 2553,5059,5061
Cheng, Charles Ching An (7585)
Cooper, J. L. B. 180
Dooley, A. E. (5844)
Griffiths, H. B. (7587)
Höft, Hartmut; et al. 7328
Höft, Margret; et al. 7328
Kalinin, V. V. 181,182
Kreweras, G. 10089
Loupias, Michèle 12581
Mielants, W. 7329
Moore, John I., Jr.; et al. 5060,5062
Oellrich, Hayo; et al. 183
Otraševs'ka, V. V. (338)
Rabinovich, Issie; et al. 5059
Rival, Ivan 7330
Šedivá-Trnková, Věra (12601)
Steffens, Karsten 183
Sumner, David P.; et al. 5062
Terra, A. I. 10090
Trotter, William T., Jr.; et al. 2553,5059-5062
Weinstein, J. M. (4990)
Geometry collection, No. 15 10090
Séminaire d'Algèbre Non Commutative (année 1974/1975) 12581

06A15 *Galois correspondence, closure operators*

Nelson, Evelyn 7331

06A20 *Lattices, semi-lattices, generalizations*

Anderson, D. D. 7332
Barbut, Marc; et al. *7333,*7334
Beran, L. 2554
Bombal Gordón, Fernando; et al. 186
Braude, Eric John (13822)
Bruns, Günter 7335
Crawley, Winston (5380)
Detlefsen, M.; et al. 2555
Ershov, Ju. L. (4947)
(Ershov, Ju. L.) (4948)
Fried, E.; et al. 184
Hsu, C. J. 5063
Johnson, E. W.; et al. 2555
Kelly, David; et al. 5064
Kertész, Andor; et al. 12582
Koh, Khee Meng 12583
Kranz, Przemysław 12584
Lender, V. B. 12585
Martinez, J. 2556
Meystre, Günter 7336
Moculʼskiĭ, E. N. 185
Monjardet, Bernard *7333,*7334
Nieminen, J. 12586
Ovsepjan, S. G. (8575)
Paljutin, E. A. (4948)
Rival, Ivan 7337
Rival, Ivan; et al. 5064
R.-Salinas, Baltasar; et al. 186
Schmidt, E. T.; et al. 184
Stern, M. 2557
Stern, Manfred; et al. 12582
Topkis, Donald M. 12587
Wohlgemuth, Andrew (9714)
Beiträge zur Algebra und Geometrie, 2 12582
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974 12583

06A23 *Complete lattices*

Cornish, William H. 12589
Fuchs, Eduard 5065
Shmuely, Zahava 12588
Szász, Ferenc 5066
Wille, Rudolf 187
Collection: Shimizu, Tatsujiro 5066

06A25 *Complemented lattices, generalizations*

Havrda, Jan 7338

06A30 *Modular lattices, continuous geometries, generalizations* [*See also* 16A30.]

Burke, John L. (*5290)
Freese, Ralph 12590
Herrmann, Christian 12591
Janowitz, M. F. 2558
Krishna Murty, M.; et al. 12592
Morash, Ronald P. 5067
Piziak, Robert 7339
Ramana Murty, P. V.; et al. 12592
Schmidt, E. T. 188
Stern, M. 189
Szász, G. 190
Wille, Rudolf 2559,7340
Proceedings of the Lattice Theory Conference (Ulm, 1975) 12590

06A35 *Distributive lattices, generalizations*

Anderson, D. D.; et al. 191
Baker, Kirby A. (12520)
Beazer, R. 7341
Cornish, William H. 10091
Davey, Brian A. 192
Fraser, Grant A. 7342
Iséki, Kiyoshi 10092
Johnson, E. W.; et al. 191
Katriňák, T. 7343
Koh, K. M.; et al. 10093
Poh, K. S.; et al. 10093
Rabinovič, M. G. 193
Reichel, Hans-Christian 12593
Rubinstein, J. H. 5068

06A40 *Boolean algebras and rings*

Adler, Andrew 7344
Beran, Ladislav 7345
Bunjatov, M. R. 194,195
Bunjatov, M. R.; et al. 10094
Chao, Wen Min; et al. 10096
Cornish, William H. 2560
Czelakowski, Janusz 10095
Fadini, Angelo 5069
Gilezan, Koriolan (287)
González Carlomán, Antonio 7346
Hsieh, Chao Hsiung; et al. 10096
Kasahara, Shouro 196
Kröger, Henner 2561
Lam, Kah Seng; et al. 5070
Lim, Chong Keang 5070
Rüthing, Dieter (7326)
Sanerib, Richard A., Jr. 197
Sobociński, Bolesław 7347
Stefani, Stefano 5071
Sultanov, A. G. 10094
Collection: Bompiani, Enrico 5069
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 5070

06A45 *Order topologies* [*See also* 54F05.]

(Bechtolsheim, Lulu) (*3667)
Benderskiĭ, O. Ja.; et al. 198
Capek, Peter 5072
Čilin, V. I.; et al. 198
Grekova, I. (1745)
Nachbin, Leopoldo (*3667)
Rao, K. P. S. Bhaskara; et al. (6099)
Rao, M. Bhaskara; et al. (6099)
Rvačov, V. L. (*1747)

06A50 *Ordered semigroups, other generalizations of groups*

Behrens, Ernst August (435)
Krishnan, Viakalathur S. 5073
Merlier, Thérèse 7348
Mitsch, H. 7349
Mogilevskiĭ, M. G. 12594
Peteanu, Vasile (10075)
Petrich, Mario (12935)
Rubanovič, G. 5074
Steinfeld, Otto; et al. 199
Tamura, Takayuki (2853)
Vogel, Hans-Jürgen 12595,12596
Vogel, Wolfgang; et al. 199
Mini-Conference on Semigroup Theory (József Attila Univ., Szeged, 1972) 199,2853
Séminaire P. Dubreil (25e année: 1971/72), Fasc. 2 (435)
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71), Fasc. 1 5073,7348,(12935)
Students' works in algebra and geometry 5074

06A55 *Ordered groups*

Davis, Gary 5075
Davis, Gary; et al. 7350
Farrell, F. Thomas (6122)
Fleischer, Isidore 200
Fox, Colin D.; et al. 7350
Glass, A. M. W. *10097
Holland, W. Charles 5076
Jakubík, J. 201
McCleary, Stephen H. 12597
Mironov, A. V. 202
Rachůnek, J. 7351
Redfield, R. H. 203
Wolfenstein, Samuel 5077
Želeva, S. D. 10098

06A60 *Ordered abelian groups*

Miller, John Boris 204

06A65 *Ordered linear spaces* [*See also* 46A40]

Annulis, John T. (13525)
Fremlin, D. H. (13526)

06A70 *Ordered rings, algebras, modules* [*For ordered fields, see* 10M15,12J15.]

Bellert, Stanisław; et al. (7114)
Dai, Taen Yu 12598
Dai, Taen-yu; et al. 7352
DeMarr, Ralph; et al. 7352
Keimel, Klaus 10099
Shee, S. C. 12599
Traczyk, Tadeusz (7114)
Zeharov, V. K. 10100
Lectures on the applications of sheaves to ring theory 10099

06A75 *Other ordered algebraic structures*

Iturrioz, L. 5078

08—XX GENERAL MATHEMATICAL SYSTEMS

08A05 *Structure of general algebras and relational systems* [*For topological representation, see* 54H10.]

Bredihin, D. A. 2562
Chvalina, Jan 205
Cornish, William H. (2560)
Dantoni, Giovanni 12600
Dokas, L. (4964)
Henno, J. 5079
Igošin, V. I. 206
Lecomte, Pierre-Claude 10101
Moszner, Zenon; et al. 7353
Penner, Sidney; et al. 5080
Peremans, W. *5081
Schroeder, Karl J.; et al. 5080
Šedivá-Trnková, Věra 12601
Sekanina, Milan (10086)
Tanaka, Shôtarô; et al. 10102
Tran Duc Mai 5082-5084
Yutani, Hiroshi; et al. 10102
Žurek, Maria; et al. 7353
Differential geometry, No. 1 206
In honor of Stavros M. Plakidis (4964)
Mathematics and theoretical mechanics, VI 5079

08A10 *Free algebras, sums, products, limits, colimits*

Burgin, M. S. 207
Komori, Yuichi 10103

08A15 *Varieties of algebras and generalizations*

(Almeida Costa, A.) 210
Anan'in, A. Z.; et al. 10104
Budkin, A. I.; et al. 5085
Burgin, M. S. 12602
Chiaro, Michael R. 208
Clark, David M.; et al. 10105
Csákány, B. 2563
Fortunatov, V. A. 12603
Franci, Raffaella 209
Furtado-Coelho, J. 210
Gorbunov, V. A.; et al. 5085
Haley, David K. 2564
Ježek, J. 7354
John, Reinhard 12604
Kemer, A. R.; et al. 10104
Koh, K. M. 7355
Kozák, Miroslav 12605
Krauss, Peter H.; et al. 10105
Lender, V. B. (12585)
Mal'cev, Ju. N. 10106
Manes, Ernest G. (*7578)
Muzalewski, M. 10107
Nelson, Evelyn 211
Sundararaman, T. R. 5086
Zamjatin, A. P. (12513)
Studies in algebra, No. 4 12603
Studies in mathematics (in honor of A. Almeida Costa) 210

08A20 *Axiomatic model classes*

Čibačev, S. A. (7239)
Kaiser, Klaus (4968)
Redi, E. 5087

08A25 *Universal algebra*

Baranovič, T. M.; et al. 5088
Block, Richard 7356
Burgin, M. S. 5089
Burgin, M. S.; et al. 5088
Ceĭtlin, G. E. 2565
Frenkin, B. R. (4965)
Haimo, Franklin 5090
Hejný, Milan 10108
Hule, H. 5091
Isbell, John R. 212
Kulik, V. T. 12606
Lenzi, Domenico; et al. 7357
Letizia, Angiola 7357
Lévy-Bruhl, Jacques 214
Linton, F. E. J. 213
Nöbauer, Wilfried 10109
Szendrei, Ágnes 10110
Szilard, Andrew L. 12607
Wilkie, A. J. 10111
Wnuk, Barbara 10112
Žitomirskiĭ, G. I. 215
Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) 5090
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) 12607
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24 année: 1970/71), Fasc. 1 214
Studies in algebra, No. 2 12606

10—XX NUMBER THEORY {Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.}

10-01 *Elementary exposition (collegiate level)*

Berry, Daniel M.; et al. 2566
Bicknell, Marjorie; et al. 216
Bosteels, G. 12608
Hoggatt, V. E., Jr.; et al. 216
Yavne, Moshe; et al. 2566

10-02 *Advanced exposition (research surveys)*

Erdős, P. (10023)
Turán, Paul 10113
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 10113
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) 10023

10-03 *Historical*

Albis González, Victor Samuel (28)
Alibaev, E. K. (10144)
(Baker, Alan) (2394)
(Bombieri, E. (2385)
Chandrasekharan, K. (2385)
(de Fermat, Pierre) (28)
Kozlov, V. Ja.; et al. (32)
(Linnik, Ju. V.) (9944)
Malyšev, A. V. (9944)
Mardžanišvili, K. K.; et al. (32)
Kozlov, V. Ja.; et al. (32)
Šidlovskiĭ, A. B. (32)
Turán, Pál (2394)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2394)
Bibliography: Šidlovskiĭ, A. B. (32)
Biography: Linnik, Ju. V. (9944)
Birthday: Šidlovskiĭ, A. B. (60th) (32)
Collection:
Linnik: Juriĭ Vladimirovič (9944)
Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 (10144)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (2385)

10-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Judd, J. S.; et al. (2574)
Knuth, Donald E.; et al. (5102)
Williams, H. C.; et al. (2574)
Yao, Andrew C.; et al. (5102)

10Axx Elementary number theory {For analogues in number fields, see 12A05.}

10A05 *Multiplicative structure of the integers* (GCD, *etc.*)

Yalavigi, C. C. 5092

10A10 *Congruences, primitive roots*

Artzy, Ehud; et al. (1707)
Burshtein, Nechemia 217
Erdős, P. 12609
Hausman, Miriam 10114
Hinds, James A.; et al. (1707)
Lehmer, D. H. 5093
Monzingo, M. G. 5094
Morgado, José (7358)
Saal, Harry J.; et al. (1707)
Suryanarayana, D. 2567
Szemerédi, E.; et al. 12609
Tietäväinen, Aimo 12610

10A15 *Power residues, reciprocity*

Karande, B. K.; et al. 110
Leonard, Philip A.; et al. 10115
Mortimer, Brian C.; et al. 10115
Thakare, N. K.; et al. 110
Williams, Kenneth S. 218,2568 2569,5095,(5182),12611
Williams, Kenneth S.; et al. 10115

10A20 *Number theoretic functions, related numbers; inversion formulas*

Andrushkiw, Joseph W.; et al. 5096
Andrushkiw, Roman I.; et al. 5096
Carlitz, L. 12612
Corzatt, Clifton E.; etal. 5096
Hayashi, Mitsutoshi 12613
Indlekofer, Karl-Heinz 2570
Iwata, Giiti (14305)
Kerawala, S. M. 12614
Kurepa, R. Đuro (12529)
Lucht, Lutz 219,5097
Morgado, José 7358
Nicolas, Jean-Louis 2571
Redmond, Don (7407)
Ruzsa, I. Z. 10116
Santos, Bernardo Recamán 5098
Cinquantenario della Unione Matematica Italiana, 1922-1972 (12529)
Séminaire sur les Nombres Transcendants (Univ. Paris XI, Orsay, 1972-1973) 2571

10A25 *Elementary prime number theory, factorization*

Barnes, C. W. 12615
Beiler, Albert H. 10117
Berstel, Jean 2572
Erdős, P.; et al. 10118
Ernvall, Reijo 12616
Ghosh, Deba Brata 10119
Golubev, V. A. 2573
Graham, R. L.; et al. 10118
Harborth, Heiko 5099,12617
Hausman, Miriam; et al. (12704)
Judd, J. S.; et al. 2574
Möller, H. (10188)
Niven, Ivan; et al. 221
Ojala, T. (10194)
Powell, Barry; et al. 221
Shapiro, Harold N.; et al. (12704)
Williams, H. C. 220
Williams, H. C.; et al. 2574
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71), Fasc. 1 7356

10A30 *Algorithms and expansions, digital properties* [*Approximation results in* 10F20; *metric results in* 10K10.]

Baldisserri, Natalia (5173)
Bleicher, Michael N.; et al. 7359
Chowla, S.; et al. 222
Erdős, Paul; et al. 7359

10A30 *Continued*

Kahan, Steven 10120,12618
Kapur, J. N. 223
Killgrove, R. B. (2588)
Knuth, Donald E.; et al. 5102
Kondō, Motokiti (12496)
Korobov, N. M. 12619
Lupaş, Alexandru 5100
Mahler, Kurt (12675)
Nathanson, M. B.; et al. 222
Rieger, G. J. 5101
Simmons, Gustavus J. 10121
Stanton, R. G.; et al. 2575
Szirtes, Thomas 10122
Williams, H. C.; et al. 2575
Yalavigi, C. C. (5092)
Yao, Andrew C.; et al. 5102
Yates, Samuel 10123

10A35 *Recurrence sequences*

Anaya, Janet Crump; et al. 10128
Bernstein, Leon 12620
Berstel, Jean; et al. 2576
Beverage, David G. 5103
Bicknell-Johnson, Marjorie; et al. (216),5105,10129
Broman, Arne 10124
Cross, Donald C. 10125
Ercolano, Joseph 7360
Ferguson, Helaman Rolfe Pratt (4082)
Finkelstein, Raphael 10126
Fults, Douglas A. 10127
Gould, H. W. 2577
Greig, W. E. 12621
Gupta, Hansraj 5104
Hoggatt, V. E., Jr. (216),5105,10128,10129,12623
Kimberling, Clark 10130
Mignotte, Maurice; et al. 2576
Robinson, Donald W. 10131
Shapiro, Louis (2833)
Silber, Robert 12622
Simons, Johannes Leonardus *7361
Singmaster, David 224
Smith, Claudia; et al. 12623
Stephens, P. J. (5142,5143)
(Trumper, Frank J. D.) 2577
Whitford, A. K. 12624
Whitford, Anthony K. 12625
Yalavigi, C. C. 10132
Zeckendorf, E. 225

10A40 *Special numbers, sequences and polynomials (e. g. Bernoulli)*

Abbott, H. L.; et al. 12626
Aull, C. E.; et al. 12626
Barsky, Daniel 10133
Bicknell, Marjorie; et al. 2578
Brown, Ezra; et al. 12626
Carlitz, L. (4997)
Castaldo, Pietro 12627
Erdős, Paul; et al. (257)
Goldberg, Karl; et al. (2476)
Gross, Kenneth B. 10134
Hayasaka, Takanori; et al. 105
Hoggatt, V. E., Jr.; et al. 2578
Leighton, Frank Thomson; et al. (2476)
Love, B. V. 7362
Newman, Morris; et al. (2476)
Nicolas, Jean-Louis; et al. (257)
Saito, Sadao; et al. (105)
Suryanarayana, D.; et al. 12626
Ugrin-Šparac, Dimitrije 10135
Yamaguchi, Itaru 12628
Zuckerman, Susan Lana (2476)

10A45 *Partitions*

Andrews, George E. 7363,7364a-b
Azatjan, A. A. 2579
Binz, Jany Cajetan 12629
Carlitz, L. 2580
Connor, Willard G. 2581
Dirdal, Gunnar 10136
Erdős, Paul; et al. 226
Ewell, John A. 2582
Colomb, Solomon W. 227
Kingsley, Roger A. 12630
Nathanson, Melvyn B.; et al. 226
Recski, András (10035)

10A99 *None of the above, but in this section*

Čečett, G. V.; et al. 5107
Eggleton, R. B.; et al. 5106
Emeličev, V. A.; et al. 5107
Erdős, P.; et al. 5106
Golubev, V. A. (2573),2583
Kononenko, A. M.; et al. 5107
Sasaki, Siro (7276)
Selfridge, J. L.; et al. 5106
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 5106

10Bxx Diophantine equations (For all papers involving algebro-geometric methods, see 14Gxx.)

Bašmakova, I. G. *2584
(Diophantus of Alexandria) *2584

10B05 *Linear, quadratic and bilinear equations*

Barkan, Philippe (5179)
De Leon, M. J. 7365
Fine, N. J. 2585
Fiorot, J.-Ch.; et al. 7366
Gondran, M.; et al. 7366
Grant, Douglas D. 2586
Mihailov, I. I. 10137
Sansone, Giovanni 12631
Schmidt, Hermann 228
Vitek, Yehoshua 12632
Yabe, Takeshi 7367

10B10 *Cubic and quartic equations*

Bremner, Andrew 5108
Chalkley, Roger 229
Gunji, Hiroshi (325)
Ogg, Andrew P. (5242)
de la Rosa, B. 12633
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. I (5242)

10B15 *Higher degree equations*

Albis González, Victor S. 5109
Baker, Alan (10162)
Benneton, Gaston 7368
Chowla, P.; et al. 2587
Chowla, S.; et al. 2587
Ellison, William J. 7369
Erdos, P. 10138
Gandhi, J. M.; et al. 7370
Grossman, Edward H. (7426)
Jones, James P. (2615)
Killgrove, R. B. 2588
Kleiman, H. 5110
Patel, B. G.; et al. 7370
Rameswar Rao, D. *10139
Sato, Daihachiro; et al. (2615)
Schlickewei, Hans Peter (10158)
Sprindžuk, V. G. 5111,7371
Wada, Hideo; et al. (2615)
Wiens, Douglas; et al. (2615)
Wildberger, Norman 7372
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (10162)
Current problems of analytic number theory 7371
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 10138
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 7369

10B20 *Multiplicative equations*

Alex, Leo J. 12634
Cohn, J. H. E. 10140
Mihailov, I. I. (10137)

10B25 *Nonpolynomial equations*

Brown, Ezra 12635
Cohen, Edward L. 12636
Conway, J. E.; et al. 10141
Jones, A. J.; et al. 10141
Rabinowitz, Stanley 12637

10B30 *Equations in sufficiently many variables* [*See also* 10J10.]

Schinzel, A.; et al. 10142
Tijdeman, R.; et al. 10142

10B35 *Representation problems* [*See also* 10J10]

Abdullaev, I. (7376)
Christie, M. R. (289)
Dressler, Robert E.; et al. 7373
Kaufman, R. M. 2589
Pfister, Albrecht 12638,12639
Pigno, Louis; et al. 7373
Singh, Sahic (2617)
Young, Robert 7373
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 12639
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) 12638

10B45 *Diophantine inequalities*

Dałek, K. 10143
Ellison, W. J. (5112)
Séminaire de Théorie des Nombres, 1970-1971 (Univ. Bordeaux I, Talence) (5112)

10B99 *None of the above, but in this section*

Shorey, T. N.; et al. 12640
Tijdeman, R.; et al. 12640

10Cxx Forms

(Micali, A.) *12641
Colloque sur les Formes Quadratiques (Montpellier, 1975) *12641
Formes quadratiques *12641
Quadratic forms *12641

10C05 *Quadratic and hermitian forms* [*See also* 10E25.]

Alibaev, E. K. 10144
Arason, J. 12642
Bartels, Hans-Jochen 7374
Broué, Michel (2322)
Cordes, Craig M. 5113
Elman, Richard; et al. 5114,5115
Faivre, Wilfred 5116
Giffen, Charles E. 12643
Hsia, J. S. 12644
Jones, Burton W. 12645
Kitaoka, Yoshiyuki 5117,7375
Knebusch, Manfred 230
Lam, T. Y.; et al. 5114,5115
Lannes, J. 231
Legrand, D. (2702)
Lewis, D. W. 12646
Micali, Artibano 232
Parimala, S. (7469)
Ponomarev, Paul (242,2618)
Ryškov, S. S. (12665)
Steinhausen, Günter 233
Szymiczek, K. 234
Wall, C. T. C. (12860,12861)
Watson, G. L. 2590
Williams, Delores A. 5118
Arithmetical theory of quadratic forms, I 5115
Collection:
Albert, Abraham Adrian 12645
Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 10144
Comptes Rendus des Journées Mathématiques de la Société Mathématique de France (Univ. Sci. Tech. Languedoc, Montpellier, 1974) (2322)
Séminaire P. Dubreil (26e année: 1972/73) 232
Séminaire de Théorie des Nombres, 1972-1973 (Univ. Bordeaux I, Talence) 12642

10C15 *Analytic theory*

Abdullaev, I. 7376
Andrianov, A. N. 10145
Igusa, Jun-ichi 5119
Kitaoka, Yoshiyuki 12647
Novodvorsky, Mark E. 10146
Oda, Toshihide (12661)
Patterson, S. J. (10152)
Ponomarev, Paul (242,2618)
Short Seminar on Prehomogeneous Vector Spaces and their Applications, II (12661)

10C20 *p-adic theory*

Gusev, G. I. (10212)

10C30 *Arithmetic properties of classical groups* [*See also* 20Gxx]

Baily, W. L. 7377
Chang, Chan Nan 12648
Chang, Chan Nan; et al. 12649
Cheng, Chao Kun 12649

10C30 *Continued*

Connors, Edward A. 7378
Ho, C. Y. 10147
Kirchheimer, Franz (5123)
Noskov, G. A. 12650
Symposium on Complex Manifolds (Kyoto, 1974) 7377

10Dxx Automorphic theory

Automorphic forms in number theory 10148
Number theory 10148
Japan-U.S. Seminar on Applications of Automorphic Forms in Number Theory (Ann Arbor, Mich., 1975) 10148

10D05 *Modular functions and groups*

Apostol, Tom M. *10149
Auslander, Louis; et al. (*2877)
de Branges, Louis (5393)
Broué, Michel (2322)
Brylinski, Jean-Luc 235
Cohen, Henri (10207)
Ditters, E. J. (7486)
Drinfel'd, V. G. (10281)
Katz, Nicholas M. 5120
Kirchheimer, Franz (5123)
Kirštein, B. H. 12651
Ligozat, Gérard *5121,*10150
Ogg, Andrew P. (5242)
Patterson, S. J. 10151,10152
Ribet, Kenneth A. 7379
Schoeneberg, Bruno *236
(Schwandt, E. A.) *236
Scourfield, E. J. 12652
(Smart, J. R.) *236
Tate, John T. 7380
Tolimieri, Richard; et al. (*2877)
Ts'êng, Chün Hung 7381
Velu, Jacques 12653
Comptes Rendus des Journées Mathematiques de la Société Mathématique de France (Univ. Sci. Tech. Languedoc, Montpellier, 1974) (2322)
Séminaire Delange-Pisot-Poitou (15e année: 1973/74), Fasc. 1 12653
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 (5242)

10D15 *Automorphic forms, one variable*

Abdullaev, I. (7376)
Arthur, James (474)
van Asch, A. G. 237
Gelbart, Stephen *7382,*12654
Goldstein, Larry Joel; et al. 5122
Harder, G. 12655
Hejhal, Dennis A. 2591
Igusa, Jun-ichi (5119)
James, David A. 238
Joris, H. 7383
Koike, Masao 7384
Manin, Ju. I. (5194),10153
Novodvorskiĭ, M. E.; et al. 239,240
Parson, L. Alayne 241
Patterson, S. J. 7385
Pizer, Arnold 10154
Pjateckiĭ-Šapiro, I. I. 239,240
Ponomarev, Paul 242
Raghavan, S. 10155
Razar, Michael 5122
Robert, Alain 12656
Satake, Ichiro 12657
Schertz, Reinhard (10205)
Shimizu, Hideo 12658
Ts'êng, Chün Hung 2592
Vinogradov, A. I. 7386
Višik, M. M. 243
Wallach, Nolan R. (5396)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 12655
Current problems in mathematics, Vol. 3 10153
Current problems of analytic number theory 7386
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 12656

10D20 *Automorphic theory, several variables*

Christian, Ulrich 12659
Evdokimov, S. A. 2593
Freitag, Eberhard (617)
Gelbart, Stephen; et al. (283)
Harder, G. (12976,12977)
Hirzebruch, P. (5245)
Jacquet, Hervé 12660
Jacquet, Hervé; et al. (283)
Kirchheimer, Franz 5123
Langlands, Robert P. *7387
Oda, Toshihide 12661
Raghavan, S. 2594
Ribet, Kenneth A. (7435)
Satô, Fumihiro 12662
Shavel, Ira 12663
Shimura, Goro (12664)
Tsao, Liang Chi 7388
Weil, André 10156
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (7435)
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) (617,12976)
Lie groups and their representations (Proc. Summer School of the Bolyai János Math. Soc., Budapest, 1971) (12977)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 12660
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) (5245)
Short Seminar on Prehomogeneous Vector Spaces and their Applications, II 12661,12662
Whittemore Lectures in Mathematics, 1967 *7387

10D25 *Complex multiplication* [*See also* 14K22.]

Koike, Masao 2595
Ohta, Masami 7389
Shimura, Goro 12664
Weil, André (10156)

10Exx Geometry of numbers

10E05 *Lattices and convex bodies* [*See also* 10J25.]

Bernšteĭn, D. N. (8451)
Elkington, G. B.; et al. (3594)
Golser, Georg 7390
Gruber, Peter (5974)
Hadwiger, H.; et al. (1089)
Hammer, J.; et al. (3594)
Mahler, Kurt 2596
Stanley, Richard P. (111)
Wills, J. M.; et al. (1089)

10E20 *Minima of forms*

Ryškov, S. S. (12665)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (12665)

10E25 *Quadratic forms (reduction, extreme forms, etc.)*

Delone, B. N.; et al. (1068)
Galiulin, R. V.; et al. (1068)
Robertson, M. M.; et al. 244
Ryškov, S. S. 12665
Schmidt, Asmus L. (10160)
Štogrin, M. I.; et al. (1068)
Stuhler, Ulrich 12666
Zucker, I. J.; et al. 244
Current problems in mathematics, Vol. 2 (1068)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 12665

10E30 *Lattice packing and covering* [*See also* 05B40, 52A40.]

Hollai, Márta (5978a-b)

10E40 *Transfer theorems*

Dubois, Eugène 10157

10Fxx Diophantine approximation {**See also 10Kxx.**}

10F05 *Approximation to one number*

Mahler, Kurt 12667

10F10 *Simultaneous approximation*

Baker, R. C. (7417)
Bombieri, Enrico 2597
Ellison, W. J. 5112
Galočkin, A. I. 12668
Schlickewei, Hans Peter 10158
Srinivasan, S. 245
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 2597
Séminaire de Théorie des Nombres, 1970-1971 (Univ. Bordeaux I, Talence) 5112

10F15 *Nonhomogeneous approximation*

Bundschuh, Peter 10159
Vitek, Yehoshua (12632)

10F20 *Continued fractions and generalizations* [*See also* 10A30.]

Barnes, C. W. 7391
Schmidt, Asmus L. 10160
Shiokawa, Iekata 10161

10F25 *Approximation to algebraic numbers*

Bazylewicz, A. (7421)
Bombieri, Enrico (2597)
Kung, H. T. (9152)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (2597)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (9152)

10F30 *Approximation by numbers from a fixed field*

Durand, Alain 5124
Kotov, S. V.; et al. 5125
Smyth, C. J. 12669
Sprindžuk, V. G.; et al. 5125

10F35 Irrationality and transcendence

Amice, Yvette 7392
Baker, Alan 10162, 10163
Bertrand, Daniel 2598
Brownawell, W. Dale 5126
Coates, John; et al. 2599
Čudnovskiĭ, G. V. 10164,12670
Cusick, T. W. 10165
Galočkin, A. I. 2600
Harase, Takashi 12671
Inkeri, K. 10166
Kogonija, P. G. 12672
Lang, Serge; et al. 2599
Lelong, Pierre 2601
Loxton, J. H.; et al. 5129
Macadre, Alain 12673
Mahler, Kurt 12674,12675
Masser, D. W. 12676
Nicolas, Jean-Louis (2571)
Van der Poorten, Alfred J. 5128
Van der Poorten, A. J.; et al. 5129
Priestley, W. M. 5127
Schmidt, Wolfgang M. 7393,12677
Schneider, Theodor 10167
Shorey, T. N. 246
Shorey, T. N.; et al. (12640)
Tijdeman, R.; et al. (12640)
Waldschmidt, Michel 5130,12678,12679
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 10162,12677
Journées Arithmétiques Françaises (Univ. Provence, Marseille, 1971) 12678
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399 2601,7392
Séminaire Pierre Lelong (Analyse), Année 1974/75 5130
Séminaire sur les Nombres Transcendants (Univ. Paris XI, Orsay, 1972-1973) (2571),12673,12679

10F40 *Distribution modulo one* [*See also* 10K05.]

Baker, R. C. 10168
Burke, John R.; et al. 5131
Cantor, David G. (5175)
Chung, F. R. K.; et al. 247
Graham, R. L.; et al. 247
Hsieh, Chao Hsiung; et al. 10169
Kuipers, L. 12680
Kuipers, L.; et al. 5131
Long, Calvin T.; et al. 7396
Meijer, H. G.; et al. 10169
Mendès France, Michel 7394
Niederreiter, H. 5132
Proĭnov, P. D. (5154)
Reversat, Marc 7395
Webb, William A.; et al. 7396

10F45 *Approximation in non-archimedean valuations*

Bertrand, Daniel (2598)
Müller, Helmut 10170
Schlickewei, Hans Peter (10158)

10F99 *None of the above, but in this section*

Ludvik, Peter (3297)
Sprindžuk, V. G. (7371)
Current problems of analytic number theory (7371)

10G05 Exponential sums, character sums

Arhipov, G. I.; et al. 7397
Cassels, J. W. S. 5133
Conway, J. H.; et al. (10141)
Corwin, Lawrence (468)
Čubarikov, V. N. 248
Čubarikov, V. N.; et al. 7397
Jones, A. J.; et al. (10141)
Kanemitsu, Shigeru; et al. 249
Korobov, N. M. (12619)
Lavrik, A. F. 250
Leonard, Philip A.; et al. 5134
Pichorides, S. K. 7398
Shiratani, Katsumi; et al. 249
Tsao, Liang Chi (7388)
Williams, Kenneth S.; et al. 5134
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 5133

10Hxx Multiplicative theory

10H05 *Riemann zeta-function*

Levinson, Norman; et al. 5135
Montgomery, Hugh L. 7399
Montgomery, Hugh L.; et al. 5135
Moser, Ján 7400
Ryavec, C. 7401
Suryanarayana, D. 251
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 7399

10H10 *Other zeta-functions, L-functions* [*For local and global ground fields, see* 12A70, 12A80, 12B30, 12B35; *for algebro-geometric methods, see* 14G10.]

Andrianov, A. N. (10145)
Apostol, Tom M. (*10149)
Cohen, Henri (10207)
Faĭnleĭb, A. S.; et al. 12681
Hejhal, Dennis A. (2591)
Hinz, Jürgen G. (10208,12714)
Huxley, M. N.; et al. 252
Koval'čik, F. B. (5190)
Novodvorsky, Mark E. (10146)
Ramachandra, K. (12682)
Ramachandra, K.; et al. 252
Robertson, M. M.; et al. (244),253
Saparnijazov, O.; et al. 12681
Stankus, E. 5136
Terras, A. (5192)
Ts'êng, Chün Hung (7381)
Vélu, Jacques (12653)
Zucker, I. J.; et al. (244),253
Séminaire Delange-Pisot-Poitou (15e année: 1973/74), Fasc. 1 (12653)

10H15 *Distribution of primes and of integers with specified multiplicative properties*

Elliott, P. D. T. A. 5137
Ellison, William John *5138
Erdős, P.; et al. 7402
Friedlander, John B. 5139
Kátai, I. 5140
Maknys, M. (5191)
(Mendès France, Michel) *5138
Motohashi, Yoichi 2602
Müller, Helmut (12691)
Norton, Karl K. 7403
Prachar, K. 254
Ramachandra, K. 12682
Richter, Bernd 5141
Shorey, T. N.; et al. 7402
Stankus, E. (5136)
Stephens, P. J. 5142,5143

10H20 *Distribution in progressions and other sequences*

Choi, S. L. G. (5164)
Chung, F. R. K.; et al. (247)
Fluch, W. 12683
Graham, R. L.; et al. (247)
Kátai, I. 5144,5145
Motohashi, Yoichi 255a-c
Niederreiter, H. (5132)
Pĭmenov, M. V. (10274)
Szemerédi, E. (10183)
Uchiyama, Saburô 5146
Wirsing, Eduard 256
Number Theory Institute, 1969 (Proc. Sympos. Pure Math., Vol. XX, State Univ. New York, Stony Brook, N. Y., 1969) 256

10H25 *Asymptotic results on arithmetic functions*

Erdős, Paul; et al. 257,2603
Fujii, Akio (7410)
Hall, R. R.; et al. 2603
Il'jasov, I. I. 258
Juškys, Z. 12686
Kano, Takeshi 259
Kátai, I. (10179)
Knopfmacher, John *7404,12684
Korobov, N. M. (12619)
Lefton, Phyllis (10219)
Mora Osejo, Luciano 260
Motohashi, Yoichi 7405,7406,10171,12685
Nicolas, Jean-Louis 2604
Nicolas, Jean-Louis; et al. 257
Odoni, R. (12709)
Patterson, S. J. (10152)
Postnikov, A. G.; et al. 12686
Ramachandra, K. (12682)
Redmond, Don 7407
Scourfield, E. J. 12687
Shapiro, Harold N. (12702)
Sita Rama Chandra Rao, R. et al. 2605
Skrabutėnas, R. 12688
Šliwa, J. (274)
Suryanarayana, D.; et al. 2605
Tuljaganov, S. T. 7408,7409
Wooldridge, Kent 2606
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 2 2604

10H30 *Sieves*

Fujii, Akio 7410
Goldberg, Eugene L. 7411
Halberstam, H.; et al. *12689
Iwaniec, H. 261
Motohashi, Yoichi (255a-c,7405,7406)
Porter, J. W. 7412
Redmond, Don (7407)
Richert, H.-E.; et al. *12689
Siebert, H. 12690

10H35 *Distribution of residue classes (primitive roots, power residues, etc.)*

Hudson, Richard H. 10172

10H40 *Generalized primes and integers*

Knopfmacher, John (*7404)
Müller, Helmut 12691

10H99 *None of the above, but in this section*

Lucht, Lutz; et al. 262
Wolke, Dieter; et al. 262

10Jxx Additive theory

Dress, François 12692
Séminaire de Théorie des Nombres, 1970-1971 (Univ. Bordeaux I, Talence) 12692

10J05 *Sums of squares*

Dodson, M. M.; et al. 5147
Ellison, W. J. 2610,2611
Gondard, Danielle (288)
Motohashi, Yoichi (7406)
(Pérez, Jesús H.) (7441)
Ribenboim, Paulo (7441)
Small, Charles 12693
Tietäväinen, A.; et al. 5147
Toffin, Philippe 12694
Vinogradov, A. I. (7386)
Current problems of analytic number theory (7386)
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 12694
Seminaire de Théorie des Nombres, 1973-1974 (Univ. Bordeaux I, Talence) (288)

10J10 *Applications of Hardy-Littlewood method* [*See also* 10B35.]

Hayes, D. R. 5148
Proceedings of the Number Theory Conference (Univ. Colorado, Boulder, Colo., 1972) 5148

10J15 *Additive questions involving primes*

Bredihin, B. M.; et al. 263
Deshouillers, Jean-Marc 5149
Gottschalk, Manfred 5150
Jakovleva, N. A.; et al. 263
Klimov, N. I.; et al. 2607
Pil'tjaĭ, G. Z.; et al. 2607
Šeptickaja, T. A.; et al. 2607
Toffin, Philippe (12694)
Vaughan, R. C. 2608,5151,12695
All-Union Conference on Number Theory (Vilnius, 1974) 263
Analytic number theory (Proc. Sympos. Pure Math., Vol. XXIV) 5151
Séminaire Delange-Pisot-Poitou (14e année: 1972/73), Fasc. 2 5149
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 (12694)
Séminaire de Théorie des Nombres, 1973-1974 (Univ. Bordeaux I, Talence) 2608
Studies in number theory, No. 4 2607

10J20 *Analytic work on partitions* [*See also* 10A45.]

Richmond, L. B. 264

10J25 *Lattice points in large regions*

Diviš, Bohuslav 10173
Ehrhart, Eugène 10174
Ismoilov, D. 5152
Novák, Břetislav 7413
Schierwagen, Andreas 2609

10Kxx Probabilistic theory; measure, dimension, etc.

10K05 *Distribution modulo one*

Baker, R. C. (5158)
(Deshouillers, J.-M.) 7414
Diaconis, Persi (10178)
Dress, François 7414
Hlawka, Edmund 5153,10175,12696
Hsieh, Chao Hsiung; et al. 2612
Kátai, I. (5144)
Kuipers, L. 12697
Kuipers, L.; et al. 2612,*7415
Mendès France, Michel (266)
Niederreiter, H.; et al. 2612,*7415
Niederreiter, Harald 7416,10176
Proĭnov, P. D. 5154
Rauzy, Gerald (10566)

10K05 *Continued*

Rindler, Harald 5155
Stackelberg, Olaf P. 10177
Vera, G. (10926)
Collection: Siegel, Carl Ludwig 5153
Répartition modulo 1 (Actes Colloq., Marseille-Luminy, 1974) 10176
Séminaire Delange-Pisot-Poitou (15e année: 1973/74), Fasc. 1 (266)
Séminaire de Théorie des Nombres, 1973-1974 (Univ. Bordeaux I, Talence) 7414

10K10 *Algorithms and expansions*

Diaconis, Persi 10178
Leahey, W. J.; et al. 12698
Mercer, A. McD. 5156
Nymann, J. E.; et al. 12698
Šalát, T. 5157

10K15 *Diophantine approximation*

Baker, R. C. 5158,7417
Catlin, Paul A. 5159a-b
Erdős, P. 265
del Junco, Andrés (7750)
Reversat, Marc 5160
Répartition modulo 1 (Actes Colloq., Marseille-Luminy, 1974) 265

10K20 *Arithmetic functions*

Collison, Joseph E. 7418
Deshouillers, Jean-Marc 12699
Kano, Takeshi (259)
Kátai, I. 10179
Laurinčikas, A. 5161,12700
Levin, B. V.; et al. 12701
Norton, Karl K. (7403)
Shapiro, Harold N. 12702
Skrabutėnas, R. (12688)
Timofeev, N. M.; et al. 12701

10K25 *Normal numbers*

Mendès France, Michel 266
Volkmann, Bodo 10180
Séminaire Delange-Pisot-Poitou (15e année: 1973/74), Fasc. 1 266

10K30 *Irregularities of distribution*

White, Brian E. 5162

10K35 *Harmonic analysis and almost periodicity*

Meyer, Y. 267,268,2613
Nikišin, E. M. (3286)
Ts'eng, Chün Hung (7381)
Journées Arithmétiques Françaises (Univ. Provence, Marseille, 1971) 2613
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 268
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionnelle. Deux journées p-radonifiantes 267

10K99 *None of the above, but in this section*

Iosifescu, Marius 5163
Kaufman, R. (518)

10Lxx Sequences of integers

Mann, Henry B. *12703

10L05 *Addition of sequences*

Choi, S. L. G. 5164
Deshouillers, J. M.; et al. 5165
Erdős, P. (10138)
Erdős, Paul; et al. (226),5165
Hämmerer, Norbert; et al. 10181
Hofmeister, Gerd; et al. 10181
Lam, Clement W. H. 10182
Nathanson, Melvyn B. (226)
(226)
Sárközi, A.; et al. 5165
Szemerédi, E. 10183
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 10183
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975 (10138)

10L10 *Special sequences (density, etc.)*

Alspach, Brian; et al. 5166
Berstel, Jean (2572)
Brown, T. C.; et al. 5166
Dress, François (12692)
Hell, Pavol; et al. 5166
Hsieh, Chao Hsiung; et al. (2612)
Kuipers, L.; et al. (2612)
Niederreiter, H.; et al. (2612)
Ruzsa, I. Z. (10116)
Saffari, B. 269
Uchiyama, Saburô (5146)
Séminaire de Théorie des Nombres, 1970-1971 (Univ. Bordeaux I, Talence (12692)

10L99 *None of the above, but in this section*

Erdős, P.; et al. 5167
Szemerédi, A.; et al. 5167
Szemerédi, E. 2614

10Mxx Rational arithmetic of algebraic objects

10M05 *Polynomials* [*See also* 13F20.]

Brizolis, Demetrios; et al. 5168
Ehrhart, Eugène 5169
Jones, James P.; et al. 2615
Pirgov, D. T. 5170
Sato, Daihachiro; et al. 2615
Straus, E. G.; et al. 5168
Wada, Hideo; et al. 2615
Wiens, Douglas; et al. 2615

10M20 *Matrices* [*See also* 15A36.]

Ricci, Paolo Emilio 7419

10Nxx Connections with logic

10N05 *Decidability*

Matijasevič, Ju. V. (2444)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2444)

10N15 *Nonstandard arithmetic* [*See also* 02H25.]

Ehrenfeucht, A.; et al. (7244)
Jensen, D.; et al. (7244)

12—XX ALGEBRAIC NUMBER THEORY, FIELD THEORY AND POLYNOMIALS

12-01 *Elementary exposition (collegiate level)*

Jacy Monteiro, L. H. *10184
McCarthy, Paul J. *5171
Weiss, Edwin *5172

12-02 *Advanced exposition (research surveys, etc.)*

Mac Lane, Saunders (2747)

12-04 *Explicit machine computation and programs (not the theory of computation or programming*

Broere, J.; et al. (2623)
Moenck, Robert T. 10185
Williams, H. C.; et al. (2623)
Wohlrabe, Klaus 10186

12-06 *Collections of papers; proceedings of conferences*

(Urazbaev, B. M.) *10187
Algebraic Seminar (Kazah State Univ., Alma-Ata, 1972) *10187
Collection: Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 *10187

12Axx Algebraic number theory: global fields (For complex multiplication, see 10D25.)

12A05 *Analogues in number fields of elementary number theory*

Baldisserri, Natalia 5173
Hausman, Miriam; et al. 12704
Shapiro, Harold N.; et al. 12704
Taylor, Elizabeth M. 7420
Wasén, R. 5174

12A15 *Special algebraic numbers (PV numbers, etc.)*

Bazylewicz, A. (7421)
Cantor, David G. 5175
Mendès France, Michel (7394)
Newman, Morris 2616
Smyth, C. J. (12669)

12A20 *Polynomials (irreducibility, etc.)*

Bazylewicz, A. 7421
Brauer, Richard 5176
Schinzel, A. 270

12A25 *Quadratic fields*

Alibaev, E. K. (10200)
Barkan, Philippe (5179)
Chowla, S.; et al. 5177
Friedlander, J.; et al. 5177
Lang, Heinrich; et al. (276,7428)
Möller, H. 7422,10188
Schertz, Reinhard; et al. (276,7428)
Stark, H. M. (7429)
Taussky, Olga 5178
Williams, Kenneth S. (5182)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (7429)
Collection of Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 (10200)

12A30 *Cubic and quartic fields*

Barrucand, Pierre 10189
Cohn, Harvey; et al. (10201)
Cooke, George; et al. (10201)
Gerth, Frank, III 271,10190
Lang, Heinrich; et al. (276)
Raju, Nambury S. 12705
Schertz, Reinhard; et al. (276)
Williams, H. C. (5180)
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 10189

12A35 *Abelian and metabelian extensions (including cyclotomic, Kummer, cyclic)*

Babaĭcev, V. A. 12706a-b
Endô, Akira (5181)
Gerth, Frank, III 10191,10192
Gold, Robert (10196)
Iwasawa, Kenkichi (10197)
Komatsu, Kenzô 10193
Liang, Joseph J. 7423
Ojala, T. 10194
Onuki, Mieko; et al. 7425
Parry, Charles J.; et al. 10195
Perin, David; et al. 10195
Ribet, Kenneth A. (7424)
Singh, Sahib 2617
Spencer, Joel 12707
Washington, Lawrence C. (12710)
Yamaguchi, Itaru (12628)
Yamamoto, Koichi; et al. 7425
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (10197)

12A40 *Other number fields*

Gold, Robert (5187),10196
Grossman, Edward H. 7426
Ishida, Makoto 272
Iwasawa, Kenkichi 10197
Pohst, Michael 10198
Taylor, Elizabeth M. (7420)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 10197

12A45 *Units and factorization*

Barkan, Philippe 5179
Bernstein, Leon 7427,12708
Cohn, Harvey 273
Odoni, R. 12709
Ojala, T. (10194)
Parry, Charles J. 10199
Raju, Nambury S. (12705)
Šliva, J. 274
Williams, H. C. 5180

12A50 *Class number, discriminant*

Alibaev, E. K. 10200
Callahan, T. 275
Chowla, S.; et al. (5177)
Cohn, Harvey; et al. 10201
Cooke, George; et al. 10201
Endô, Akira 5181
Friedlander, J. (5177)
Gerth, Frank, III (10190)
Goldstein, Larry Joel; et al. (5122)
Lang, Heinrich; et al. 276,7428
Möller, H. (7422)
Ponomarev, Paul 2618
Razar, Michael (5122)
Rehm, Hans Peter 2619
Schertz, Reinhard; et al. 276,7428
Sonn, Jack 10202
Sprindžuk, V. G. 5111
Stark, H. M. 7429
Washington, Lawrence C. 12710
Williams, Kenneth S. 5182
Zassenhaus, Hans 277
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7429
Collection: Reports of the Algebraic Seminar of the Department of Algebra and Number Theory of Kazah State Univ., No. 2 10200
Proceedings of the Number Theory Conference (Univ. Colorado, Boulder, Colo., 1972) 277

12A55 *Galois theory*

Arnaudon, Madeleine 12711
Bass, Hyman 10203
Išanov, V. V. 2620
Liang, Joseph J. (7423)
Neukirch, Jürgen 12712
Neumann, Olaf 5183
Ovseevič, A. I. 278
Rehm, Hans Peter (2619)
Ribet, Kenneth A. (7379)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 10203

12A60 *Galois cohomology*

Fröhlich, A. 2621
Neumann, Olaf 5184
Tate, John 10204
Voskresenskiĭ, V. E. (12922)
Yamada, Toshihiko 5185
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 10204
Studies in number theory, No. 4 (12922)

12A65 *Class field theory*

Barrucand, Pierre (10189)
Bass, Hyman (10203)
Cassou-Noguès, Philippe 5186
Furuta, Yoshiomi 7430
Gelbart, Stephen; et al (283)
Gerth, Frank, III (271)
Gold, Robert 5187,12713
Ihara, Yasutaka (10210)
Jacquet, Hervé; et al. (283)
Keating, M. E. 7431
Kisilevsky, H. 5188
Martinet, Jacques 7432
Neukirch, Jürgen (12712)
Roberts, Leslie G. (10257)
Schertz, Reinhard 10205
Stark, H. M. 10206
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (10210)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) (10203)
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 (10189)
Séminaire de Théorie des Nombres, 1971-1972 (Univ. Bordeaux I, Talence) 7432

12A70 *Zeta-functions and L-functions of number fields* [*See also* 10H10.]

Broere, J.; et al. 2623
Chowla, S.; et al. 2622
Cohen, Henri 10207
Gechter, Jerry 5189
Goldfeld, D. M.; et al. 2622
Hinz, Jürgen G. 10208,12714
Koval'čik, F. B. 5190
Maknys, M. 5191
Stark, H. M. (10206)
Terras, A. 5192
Vigneras, Marie-France (280)
Weil, André (10156)
Williams, H. C.; et al. 2623
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (7429)
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 2 (280)

12A75 *Density theorems*

Odoni, R. W. K. 12715
Wójcik, J. 5193

12A80 *Arithmetic and zeta-functions of algebras*

Dennis, R. Keith; et al. 279
Falk, Daniel (2709)
Fein, Burton; et al. (5199),12716
Keating, M. E. 279
Mollin, R. 10209
Platonov, V. P. (355,10328a-b,10433)
Ponomarev, Paul (2618)
Schacher, Murray; et al. (5199),12716
Shavel, Ira (12663)
Sonn, Jack (10202)
Stein, Michael R.; et al. 279
Vigneras, Marie-France 280,281,12717
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 2 280

12A85 *Analysis in adèle rings and groups*

Igusa, Jun-ichi (5119)
Komatsu, Keiichi 12718
Meyer, Yves (268)
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 (268)

12A90 *Arithmetic theory of algebraic function fields* [*See also* 14-XX.]

Ihara, Yasutaka 10210
Leitzel, James R. C.; et al. 2624
Madan, Manchar L.; et al. 2624
Ostrowski, A. M. 282
Roberts, Leslie G. (10257)
Schwach, Paul 10211
Voskresenskiĭ, V. E. (10287)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 10210
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10287)

12A95 *Totally real and totally positive fields*

Kitaoka, Yoshiyuki (5117)
Manin, Ju. I. 5194
Terras, A. (5192)

12A99 *None of the above, but in this section*

Hodges, Wilfrid (10014)
Kung, H. T. (9152)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (9152)

12Bxx Algebraic number theory: local and *p*-adic fields

12B05 *Polynomials*

Gusev, G. I. 10212

12B10 *Ramification and extension theory*

Nguyen-Quang-Do Thong 7433

12B15 *Galois theory*

Bergé, Anne-Marie 2625
Cassels, J. W. S. 10213a-b
Watanabe, Sin-ich 7434
Yamagata, Shuji 12719
Collection: Satô, Isuke 7434

12B25 *Class field theory*

Drinfel'd, V. G. (10281)
Neukirch, Jürgen; et al. 10214
Onishi, Hironori 10215
Perlis, Robert; et al. 10214

12B30 *Zeta- and L-functions* [*See also* 10H10.]

Morita, Yasuo 12720
Ribet, Kenneth A. 7435
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) 7435

12B35 *Arithmetic and zeta-functions of algebras*

Gelbart, Stephen; et al. 283
Jacquet, Hervé; et al. 283

12B40 *Other analytic theory*

Baldassarri, Francesco 284
Barsky, Daniel (10133)
Koshiba, Yôichi (10686)
Stavskiĭ, M. Š. 10216,10217
Taibleson, Mitchell H. 5195
Questions on mathematical analysis 10216,10217

12Cxx Finite fields and finite commutative rings

12C05 *Polynomials*

Agou, Simon 7436,12721
Brawley, J. V. 12722
Carlitz, L. 12723
Lidl, Rudolf; et al. 5496
Mullen, Gary L. 2626
Müller, Winfried B.; et al. 5196
Wagner, Carl G. 5197

12C10 *Linear sequences*

Berlekamp, E. R.; et al. 285
(Berlekamp, E. R.) 286
Dillon, J. F.; et al. 286
Fredricksen, H. M.; et al. 285
(Fredricksen, H. M.) 286
Morris, R. A.; et al. 286
Proto, R. C.; et al. 285
(Proto, R. C.) 286

12C15 *Arithmetic*

Dodson, M. M.; et al. (5147)
Pollard, J. M. (7099)
Tietäväinen, A.; et al. (5147)
(5147)

12C20 *Cyclotomy*

Grossman, Edward H. (7426)
Lam, Clement W. H. (10182)
MacWilliams, F. J.; et al. 12724
Odlyzko, A. M.; et al. 12724

12C25 *Exponential sums*

Kiefe, Catarina (10272)

12C30 *Structure theory*

Hohler, P. 2627

12C99 *None of the above, but in this section*

Gilezan, Koriolan 287
Knopfmacher, John (12684)

12Dxx Real and complex fields

12D05 *Polynomials: factorization*

Kallenberg, Olav 5198
Terkelsen, Frode (2931)

12D10 *Polynomials: location of zeros [Algebraic theorems; for the analytic theory, see* 26A78, 30A08.]

Hall, R. R. 7437
Ogarkov, T. T. 7438,7439
West, Robert W. (13978)

12D15 *Formally real fields*

Elman, Richard; et al. (5114)
Fein, Burton; et al. 5199
Gondard, Danielle 288
Knebusch, Manfred 10218
Knebusch, Manfred; et al. 7440
Lam, T. Y.; et al. (5114)
(Pérez, Jesús H.) 7441
Prestel, Albrecht (12638,12639)
Ribenboim, Paulo 7441
Risler, Jean-Jacques (5226)
Schacher, Murray; et al. 5199
Wright, Michael J.; et al. 7440
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12639)
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) (12638)
Séminaire de Théorie des Nombres, 1973-1974 (Univ. Bordeaux I, Talence) 288

12D99 *None of the above, but in this section*

de Bruijn, N. G. (4983)
Christie, M. R. 289

12Exx General field theory

12E05 *Polynomials (irreducibility, etc.)*

Brauer, Richard (5176)
Kubota, Kenneth K.; et al. 12725
Lefton, Phyllis 10219
Liardet, Pierre; et al. 12725
Pirgov, D. T. (5170)
Schinzel, A. 12726
Schulze, Volker 12727
Stevens, John G. (10273)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 12726

12E10 *Special polynomials*

Novogrudskaja, A. N. 12728
Ribenboim, P. 290
Symposia Mathematica, Vol. XV 290

12E99 *None of the above, but in this section*

Ellison, W. J. (2610)
Ostrowski, A. M. 10220

12Fxx Field extensions

12F05 *Algebraic extensions*

McCabe, John 2628

12F10 *Separable extensions, Galois theory*

Girardi, Mario; et al. 5200
Griffin, Malcolm P. 12729
Israel, Giorgio; et al. 5200
Kuyk, W.; et al. 12730
Lefton, Phyllis (10219)
Lenstra, H. W., Jr. 12730
Neumann, Olaf (5183)
Novogrudskaja, A. N. (12728)

12F15 *Inseparable extensions, derivations*

Chase, Stephen U. 12731
Deveney, James K. 5201,7442

12F20 *Transcendental extensions*

Rosset, Shmuel (10289)

12F99 *None of the above, but in this section*

van Praag, Paul 291

12Gxx Homological methods

12G05 *Galois cohomology [See also* 12A60, 18H10.]

McQuillan, Donald L. 10221
Neumann, Olaf 292

12Hxx Differential and difference algebra

12H05 *Differential algebra*

Furuya, Mamoru (10231)
Kowalski, Michał 10222
Kundert, Esayas George (5210a-b)
Pourchet, Yves 12732
Rozenfel'd, A. I. 10223
Trendafilov, I. D. 5202
Proceedings of the Seminar of the Department of Geometry, No. VII 10223

12Jxx Topological fields

12J10 *Valued fields*

Bröcker, Ludwig 10224
Endler, Otto 5203
Engler, Antonio José 10225

12J99 *None of the above, but in this section*

Arnautov, V. I.; et al. 12733
Čilin, V. I. 10226
Shanks, M. E.; et al. 5204
Vizitiu, V. N.; et al. 12733
Warner, Seth; et al. 5204
Więsław, W. 5205

12K05 Near-fields and other generalizations

Čilin, V. I. (10226)

12Lxx Connections with logic

12L05 *Decidability*

Hodges, Wilfrid (10014)
Jarden, Moshe (12517)

12L10 *Ultraproducts*

Adler, Allan; et al. (7245)
Kiefe, Catarina; et al. (7245)

12L99 *None of the above, but in this section*

Cherlin, G. L. (90)

13—XX COMMUTATIVE RINGS AND ALGEBRAS (For finite commutative rings, see 12Cxx.)

13-01 *Elementary exposition (collegiate level)*

Henriksen, Melvin 12734

13-02 *Advanced exposition (research surveys, etc.)*

(Anderson, Daniel) *10227
(Buchsbaum, David A.) 12735
Eisenbud, David 12735
Geramita, Anthony V.; et al. *5206
Larsen, Max D.; et al. *2629
McCarthy, Paul J.; et al. *2629
Murthy, M. P. *10227
Small, Charles; et al. *5206
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 12735

13-06 *Collections of papers; proceedings of conferences*

(Zelinsky, D.) *12736
Brauer groups (Proc. Conf., Northwestern Univ., Evanston, Ill., 1975) *12736
Conference on Brauer Groups (Northwestern Univ., Evanston, Ill., 1975) *12736

13Axx General commutative ring theory

13A05 *Divisibility*

Zafrullah, Muhammad 2630

13A10 *Radical theory*

Tëbyrcë, E. I. (2714)

13A15 *Ideals, prime ideals, valuations and generalizations*

Bresinsky, H. (2660)
Chiaruttini, Sandra; et al. 2631
Craven, Thomas C. (12758)
Fakhruddin, Syed 12737
Fritzsche, Volkmar 10228
Froeschl, Paul A., III 12738
Girolami, Florida; et al. 12739
Guazzone, Stefano; et al. 12739
McDowell, K. P.; et al. 5207
Millevoi, Tomaso; et al. 2631
Müller, B. J.; et al. 5207
Ohi, Takeo (306)
Oshiro, Kiyoichi 10229
Wiegand, Sylvia 5208

13A20 *Brauer group [See also* 16A16.]

Knus, Max-Albert; et al. *5209
Ojanguren, Manuel; et al. *5209
Strano, Rosario 293

13Bxx Ring extensions and related topics

13B05 *Galois theory*

Faith, Carl 7443
Cook, P. M., II; et al. 12740
Cruthirds, John E. 2632
Kreimer, H. F.; et al. 12740
Nagahara, Takasi 10230

13B10 *Automorphisms and derivations*

Berndt, Rolf (5238)
Furuya, Mamoru 10231
Heerema, Nickolas 2633
Kowalski, Michał (10222)
Kundert, Esayas George 5210a-b

13B15 *Ramification theory*

Scheja, G.; et al. *294
Storch, U.; et al. *294

13B20 *Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)*

Dobbs, David E. 5211
Dobbs, David E.; et al. 5212
Papick, Ira J.; et al. 5212
Seidenberg, A. 12741
Stoia, Manuela (10264)

13B25 *Polynomials over commutative rings*

Bass, H.; et al. 2634
Connell, E. H.; et al. 2634
Hirabuki, Shinkichi; et al. 10232
Matsuda, Ryūki 10232
Valla, G. 295
Wright, D. L.; et al. 2634
Collection: Satō, Isuke 10232

13B99 *None of the above, but in this section*

Gordon, William B. 12742

13Cxx Theory of modules and ideals

13C05 *Structure, classification theorems*

Albu, Toma; et al. 10233
Amao, J. O. 12743
Anderson, D. D.; et al. (191)
(Buchsbaum, David A.) (12735)
Eisenbud, David (12735)
Johnson, E. W.; et al. (191)
van Leeuwen, L. C. A. 5213
Năstăsescu, Constantin; et al. 10233
Ooishi, Akira 10234
Warfield, R. B., Jr. 2635
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (12735)

13C10 *Special types (projective, injective, free, flat, torsion, reflexive, etc.)* [*See also* 18G05.]

Alamelu, S. 2636
Almkvist, Gert 12744
Brewer, J. W.; et al. 5214
Feigelstock, Shalom 2637
Fossum, Robert M. 7444
Gardner, Robert B. 10235
Heitmann, R. C.; et al. 5214
Hochster, Melvin 296
Huber, Martin 12745
Kleiner, G. B. 5215
Koifman, L. A. 5216
Lady, E. L.; et al. 5214
Mount, K. R.; et al. (12768)
Nicolas, Anne-Marie 12746
Querré, J. 2638
Rutter, E. A.; et al. 5214
Sharp, Rodney Y. 2639
Snider, Robert L. 10236
Verra, Alessandro (2656)
Villamayor, O. E. (12768)
Applied mathematics and transportation problems 5215

13C15 *Dimension theory, depth, related rings (catenary, etc.)*

Chouinard, Leo G., II 5217
Emler, Werner (5257)
Hochster, Melvin; et al. (5230)
Marinari, Maria Grazia 297
Murthy, M. Pavaman; et al. (10267)
Roberts, Joel L.; et al. (5230)
Stückrad, Jürgen 2640
Towber, Jacob; et al. (10267)
Beiträge zur algebraischen Geometrie 2640,(5257)

13C99 *None of the above, but in this section*

Lin, Huei Lung 5218
Collection:
Teng, Tsing Houa 5218

13Dxx Homological methods (For cohomology of rings and algebras, see 18H10.)

13D05 *Homological dimension*

Strogalov, S. S. (12756)

13D15 *Class group, Grothendieck group, K-theory* [*See also* 18F25.]

Almkvist, Gert 12744
Bass, H.; et al. 12747
Carral, Michel 10237
Dennis, R. Keith; et al. 10238
Gupta, Surender K. 298
Magid, Andy R.; et al. 10238
Wagoner, J. B. (5320)
Wright, D.; et al. 12747

13D99 *None of the above, but in this section*

André, Michel 12748
Brezuleanu, A. 12749
Draper, Richard N.; et al. 5219
Fischer, Klaus G. 5219
Malliavin-Brameret, Marie-Paule 12750
Sjödin, Gunnar 10239
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 12748
Séminaire P. Dubreil (26e année: 1972/73) 12750

13Exx Chain conditions

13E05 *Noetherian rings*

Houston, Evan G., Jr.; et al. 2641
McAdam, Stephen; et al. 2641
McDowell, Kenneth P. 2642
Querré, Julien 12751
Ratliff, L. J., Jr. 299
Richman, Fred (4937)
Seidenberg, Abraham (4938)
Valla, G. 10240

13E99 *None of the above, but in this section*

Johnson, Johnny A. 5220

13Fxx Arithmetic rings

13F05 *Dedekind and Prüfer rings and their generalizations*

Anderson, D. D. 12752
Boisen, M. B., Jr.; et al. 7445
Costa, Douglas L.; et al. 300
Hiblot, Jean-Jacques 5221
Johnson, Jon L.; et al. 300
Rosen, Michael (5248)
Sheldon, P. B.; et al. 7145
Spulber, Dorian 7446
Treger, R. B. (10246)

13F10 *Principal ideal rings*

Boisen, Monte B., Jr. 5222
Bouvier, A. 7447

13F15 *Factorial rings, unique factorization domain*

Bădescu, L.; et al. (7465)
Besson, Gérard (12766)
Costa, Douglas L. 10241
Fiorentini, M.; et al. (7465)
Geller, Susan C. (12923)
Gérard, Besson (10254)
Nicolas, Anne-Marie (12746)

13F20 *Polynomial rings* [*See also* 10M05.]

Brizolis, Demitrios 2643
Greenberg, B. V.; et al. 5223
Hule, Harald; et al. 301
Parimala, S. 7448
Sidki, Said N.; et al. 301
Vasconcelos, W. V.; et al. 5223

13G05 Integral domains

Brandal, Willy 2644
David, John E. 10242
Dobbs, David E. 12753
Gilmer, Robert; et al. 302
Hoffmann, Joseph F.; et al. 302
McCabe, John (2628)
Miyanishi, Masayoshi (7481)

13Hxx Local rings and semilocal rings

13H05 *Regular local rings*

Griffith, Phillip 303
Van der Kallen, Wilberd 5224

13H10 *Special types (Macaulay, Gorenstein, etc.)*

Bădescu, L.; et al. (7465)
Draper, Richard N.; et al. (5219)
Eisenreich, Günther (5256)
Fiorentini, M.; et al. (7465)
Fischer, Klaus G.; et al. (5219)
Gruson, Laurent (314)
(Herzog, Jürgen) (*304)
Hinić, V. A. (12797)
(Kunz, Ernst) (*304)
McAdam, Stephen; et al. 12754
Ratliff, L. J., Jr. 2645
Ratliff, L. J., Jr.; et al. 12754
Roy, Amit 12755
Strogalov, S. S. 12756
Beiträge zur algebraischen Geometrie (5256)
Cohen-Macaulay-Rings *304
Colloque d'Algèbre Commutative (Rennes, 1972) (314)
Der kanonische Modul eines Cohen-Macaulay-Rings *304
Seminar über die lokale Kohomologietheorie von Grothendieck, Univ. Regensburg, 1970/1971 *304

13H15 *Multiplicity theory and related topics*

Burau, W. (10286)
Dassow, Jürgen (7453)
Eakin, Paul; et al. 7449
Gröbner, Wolfgang; et al. (5258)
Lafon, J. P. *10243
Odetti, Francesco (2669)
Reitberger, Heinrich; et al. (5258)
Renschuch, Bodo; et al. 12757
Reufel, Manfred (7457)
Sathaye, Avinash; et al. 7449
Stückrad, Jürgen; et al. 12757
Vogel, Wolfgang (5259)
Vogel, Wolfgang; et al. 12757
Beiträge zur algebraischen Geometrie (5258,5259,10286)
Collection: Schmidt, Adam 7453
Festband anläßlich des 65. Geburtstages von Ernst Peschl (7457)

13H99 *None of the above, but in this section*

Detlefsen, M.; et al. (2555)
Ghione, Franco; et al. 2646
Gulliksen, Tor H.; et al. 2646
Johnson, E. W.; et al. (2555)
Radu, Nicolae (5236)

13Jxx Topological rings (For ordered rings, see 06A70; see also 16A30.)

13J05 *Power series rings*

Abhyankar, S. S.; et al. 2647
Castillon, Jean-Bernard (10288)

13J05 *Continued*

Guérindon, Jean 10244
Haghany, Ghodsieh (3411)
Ishibashi, Yasunori 2648
Loy, R. J. (3423)
Moh, T. T.; et al. 2647
Séminaire P. Dubreil, F. Aribaud et M.-P. Malliavin (28e année: 1974-75) 10244

13J10 *Complete rings*

Giebutowski, Theodore A. 7450

13J99 *None of the above, but in this section*

Baldassarri, Francesco (284)

13K05 Witt vectors and related rings

Craven, Thomas C. 12758

14—XX ALGEBRAIC GEOMETRY

14-01 *Elementary exposition (collegiate level)*

Marruccelli, Aldo 10245
Mumford, David *7451

14-02 *Advanced exposition (research surveys, etc.)*

Dolgačev, I. V.; et al. 305
Iskovskih, V. A.; et al. 305
Algebra. Topology. Geometry, Vol. 12 305
Bibliography:
Algebraic cycles 305
Moduli problems 305

14-03 *Historical*

Grothendieck, A. (2386)
(Hironaka, H.) (2386)
(Mumford, David) (2393)
Tate, J. (2393)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2386)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (2393)

14Axx Foundations

14A05 *Relevant commutative algebra* [*See also* 13-XX.]

Brewer, J. W.; et al. (5214)
Fritzsche, Volkmar (10228)
Greenberg, B. V.; et al. (5223)
Heitmann, R. C.; et al. (5214)
Lady, E. L.; et al. (5214)
McCabe, John (2628)
Rutter, E. A.; et al. (5214)
Vasconcelos, W. V.; et al. (5223)

14A10 *Varieties*

Strambach, Karl 2649

14A15 *Schemes*

Guaraldo, Francesco; et al. 5225
Macrì, Patrizia; et al. 5225
Ohi, Takeo 306

14A20 *Generalizations (algebraic spaces, motifs)*

Mulvey, Christopher J. 12759
Treger, R. B. 10246

14A25 *Elementary questions*

Goto, Morikuni 12760
Guérindon, Jean (10244)
Mostowski, Tadeusz 307
Risler, Jean-Jacques 5226,(13108)
Stammler, Ludwig 308
Beiträge zur Algebra und Geometrie, 2 308
Séminaire P. Dubreil, F. Aribaud et M.-P. Malliavin 28e année: 1974/75) (10244)

14A99 *None of the above, but in this section*

Cherlin, G. L. (90)
Risler, J. J. 12761
Séminaire Pierre Lelong (Analyse), annee 1974/75 12761

14Bxx Local theory

14B05 *Singularities* [*See also* 14E15.]

Bădescu, Lucian 7452
Bernšteĭn, D. N. (8451)
Berthelot, Pierre (3019)
Briançon, J.; et al. (7843)
Brieskorn, Egbert 5227
Dassow, Jürgen 7453
Delorme, Charles (7477)
Galbură, G.; et al. 309
Kashiwara, M. (590)
Kato, Mitsuyoshi (6149)
Kušnirenko, A. G. 7454
Lascoux, Alain 12762
Laumon, Gérard 2650
Lipman, Joseph 5228a,7455
Masuda, Kazuo (6168)
Miller, John L. (6148)
Milnor, John (6169)
Moroianu, M.; et al. 309
Roberts, Joel (10265)
Ronga, Felice (2655)
Salanova, M.ª A. 5229
Scharf, Alois (*13920)
Singh, Balwant 7456
Speder, J.-P.; et al. (7843)
Teissier, Bernard (3023),10247
Todorov, A. N. (10259)
Varčenko, A. N. 10248,12763,12764
Wahl, Johathan M. (10261)
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) 10247
Collection: Schmidt, Adam 7453
Knots, groups, and 3-manifolds (Papers dedicated to the memory of R. H. Fox) (6169)
Manifolds—Tokyo 1973 (6149)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 12763
Quelques problèmes de modules (Séminaire, 1971-1972) (3023,3019)
Séminaire Goulaouic-Lions-Schwartz 1974-1975: Équations aux dérivées partielles linéaires et non linéaires (590)
Singularités à Cargèse (1972) 5227

14B10 *Infinitesimal methods*

Gruson, Laurent (314)
Zak, F. L. (12770)
Colloque d'Algèbre Commutative (Rennes, 1972) (314)

14B15 *Local cohomology* [*See also* 18F20.]

Hochster, Melvin; et al. 5230
Lorenzani, Massimo; et al. 10249,10250
Maschietti, Antonio; et al. 10249,10250
Renschuch, Bodo; et al. 12751
Roberts, Joel L.; et al. 5230
Stuckrad, Jurgen; et al. 12757
Suominen, Kalevi 2651
Vogel, Wolfgang; et al. 12757

14B20 *Formal neighborhoods*

Zak, F. L. (7461)

14B99 *None of the above, but in this section*

Bass, H.; et al. (2634)
Brîndeu, L.; et al. 10251
Connell, E. H.; et al. (2634)
Gheorghiu, Oct. Em.; et al. 10251
Reufel, Manfred 7457
Scheja, G.; et al. (*294)
Storch, U.; et al. (*294)
Wright, D. L.; et al. (2634)
Collection: Mioc, Vasile 10251
Festband anläßlich des 65. Geburtstages von Ernst Peschl 7457

14Cxx Cycles and subschemes

14C05 *Parametrization (Chow and Hilbert schemes)*

Borovskiĭ, Ju. E. (315)
Geometry collection, No. 13 (315)

14C10 *Equivalence relations*

Baum, Paul; et al. (317)
Bloch, Spencer; et al. (318)
Collino, Alberto 5231
Fulton, William; et al. (317)
Kleiman, Steven L. 12765
MacPherson, Robert; et al. (317)
Ogus, Arthur; et al. (318)
Van der Kallen, Wilberd (5224)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 12765

14C15 *Rational equivalence rings, intersection theory*

Collino, Alberto 10252
Demazure, Michel 7458
McLeod, R. (14308)

14C20 *Divisors, linear systems, Picard groups*

Angermüller, Gerhard 10253
Besson, Gérard 12766
Collino, Alberto 12767
Gérard, Besson *10254
Godeaux, Lucien 10255,(10275)
Kawahara, Yusaku; et al. 310
Krugljakov, L. Z. 10256
Lax, R. F. (13149)
Marchionna, Ermanno (12779)
Mount, K. R.; et al. 12768
Niitsuma, Hiroshi; et al. 310
Roberts, Leslie G. 10257,(10269)
Szpiro, Lucien (12784)
Uchibori, Tomio; et al. 310
Villamayor, O. E.; et al.12768
Collection: Bompiani, Enrico (12779)
Geometry collection, No. 15 10256
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (12784)

14C30 *Transcendental methods, Hodge theory*

Boutot, Jean-François 12769
Cornalba, Maurizio; et al. 7459
Del Centina, Andrea; et al. (10087)
Deligne, P. (*5232)
Gordon, Gerald Leonard; et al. 311
Griffiths, Phillip A.; et al. 7459,(7868)
Liu, Mu Chou; et al. 311
Schmid, Wilfried; et al. (7868)
Zappa, Paolo; et al. (10087)
Zucker, Steven (313)
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) 7459
Différents aspects de la positivité 12769
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) (7868)

14C99 *None of the above, but in this section*

Lascu, Alex T.; et al. 312
Peters, C. A. M.; et al. (7492)
Scott, D. Bernard; et al. 312
Simonis, J.; et al. (7492)

14Dxx Families, fibrations

14D05 *Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)*

Aomoto, Kazuhiko 10258
Bannai, Eiichi, et al. (10720)
Brieskorn, Egbert (5227)
Cornalba, Maurizio; et al. (7459)
Deligne, P. *5232
Griffiths, Phillip A. 2652
Griffiths, Phillip A.; et al. (7459)
Köpf, Ursula (10657)
Takano, Kyoichi; et al. (10720)
Teissier, B. (10247)
Todorov, A. N. 10259
Varčenko, A. N. (10248)
Vohmann, Horst Dieter (*593)
Zucker, Steven 313
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 2652
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (7459,10247)
Singularités à Cargèse (1972) (5227)

14D15 *Formal methods; deformations [See also 32Gxx]*

André, Michel (12748)
Briancon, Joël; et al. (13122,13123)
Gruson, Laurent 314
Henry, Jean-Pierre; et al. (13123)
Nobile, Augusto (2661)
Schaps, Mary 10260
Sernesi, Edoardo (10675)
Speder, Jean-Paul; et al. (13122,13123)
Vohmann, Horst Dieter (*593)
Wahl, Johathan M. 7460,10261
Zak, F. L. 7461,12770
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12748)
Colloque d'Algèbre Commutative (Rennes, 1972) 314

14D20 *Algebraic moduli problems [For analytic moduli problems, see 32G13.]*

Hirzebruch, F. (5245)
Iitaka, Shigeru 7462
Mošezon, B. G. (13146)
Narasimhan, M. S.; et al. (12777)
Newstead, P. E. (7468)
Nori, Madhav V. (5237)
Oort, Frans 12771
Popp, Herbert 2653
Ramanan, S.; et al. (12777)
Seshadri, C. S. 7463
Shah, Jayant (5246)
Ueno, Kenji (605,12775)
Vigéras, Marie-France (12717)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7463
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13146)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) (5245)
Symposium on Complex Manifolds (Kyoto, 1974) (605),7462

14D99 *None of the above, but in this section*

Borovskiĭ, Ju. E. 315
Geometry collection, No. 13 315

14Exx Mappings and correspondences

14E05 *Rational maps, birational correspondences*

Deligne, Pierre 5233
Filippov, N. D. 12772
Muran, K. V.; et al. 7464
Skopec, Z. A.; et al. 7464
Vogel, Wolfgang (5259)
Beiträge zur algebraischen Geometrie (5259)
Geometry and topology, No. 1 7464
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 5233

14E10 *General correspondences*

Abhyankar, S. S.; et al. (2647)
Babbage, D. W. (5264)
Brauner, H. (3576)
(Guazzone, Stefano) (5264)
Hanturina, S. A. 10262
Hirschowitz, André 5234
Kazakova, G. G. (326)
Manna Ciarrapico, Lucia 5235
Moh, T. T.; et al. (2647)
Rollero, Aldo 2654
Collection: Bompiani, Enrico 2654
Geometry and topology, No. 1 10262
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417 5234
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) (3576)

14E15 *Global theory of singularities, resolution*

Bădescu, L. 7465
Beltrametti, Mauro 12773
Dassow, Jürgen (7453)
Fiorentini, M.; et al. 7465
Galburĭ, G.; et al. (309)
Hesselink, Wim H. (5253)
Kušnirenko, A. G. 10263
Moroianu, M.; et al. (309)
Reufel, Manfred (7457)
Sánchez Giralda, Tomás *7466
Schaps, Mary 7467
Stoia, Manuela 10264
Stückrad, Jürgen (2640)
Zak, F. L. (12770)
Beiträge zur algebraischen Geometrie (2640)
Collection: Schmidt, Adam (7453)
Festband anläßlich des 65. Geburtstages von Ernst Peschl (7457)

14E20 *Coverings, fundamental group*

Nori, Madhav V. (5237)
Strogalov, S. S. (12756)

14E25 *Embeddings*

Peters, C. A. M.; et al. (7492)
Roberts, Joel 10265
Simonis, J.; et al. (7492)

14E35 *Results in dimension ≤ 3*

Gaeta, Federico (7478)
Lewin-Ménégaux, Renée 12774
Ronga, Felice 2655
Sánchez Giralda, Tomás (*7466)
Ueno, Kenji 12775

14E99 *None of the above, but in this section*

Besson, Gérard (12766)
Galbiati, Margherita (10651)
Godeaux, Lucien 10266
Radu, Nicolae 5236
Collection: Picone, Mauro 10266

14Fxx Cohomology theory (See also 13Dxx, 18—XX.)

14F05 *Vector bundles, sheaves, related constructions*

Atiyah, M. F.; et al. (7870)
Baum, Paul; et al. 317
Demeyer, F. R.; et al. (320)
Fulton, William; et al. 317
Kempf, George R. (12799)
Knus, M. A.; et al. (320)
Lascu, Alex T.; et al. (312)
MacPherson, Robert; et al. 317
Matsunaga, Hiromichi 12776
Murthy, M. Pavaman; et al. 10267
Narasimhan, M. S.; et al. 12777
Newstead, P. E. 7468
Nori, Madhav V. 5237
Parimala, S. 7469
Ramanan, S.; et al. 12777
Rees, E.; et al. (7870)
Scott, D. Bernard; et al. (312)
Seshadri, C. S. (7463)
Stuhler, Ulrich 316,(7649)
Suominen, Kalevi (2651)
Towber, Jacob; et al. 10267
Umemura, Hiroshi 7470
Verra, Alessandro 2656
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (7463)

14F10 *Differentials and other special sheaves*

Berndt, Rolf 5238
Brückmann, Peter (5260)
(Douady, Adrien) 12778
Jouanolou, J. P. 5239
Radu, Nicolae (5236)
Sibner, L. M.; et al. (13150)
Sibner, R. J.; et al. (13150)
Stoia, Manuela (10264)
(Verdier, Jean-Louis) *12778
Algebraic K-theory, I: Higher K-theories 5239
Analytical geometry *12778
Contributions to analysis (a collection of papers dedicated to Lipman Bers) (13150)
Géométrie analytique *12778
Séminaire de Géométrie Analytique (École Norm. Sup., Paris, 1974-75) *12778

14F15 *Serre cohomology, K-theory [See also 13D15, 18F25.]*

Bloch, Spencer; et al. 318
Köpf, Ursula (10657)
Lascoux, Alain (12762)
Manin, Ju. I. *10268
Marchionna, Ermanno 12779
Ogus, Arthur; et al. 318
Roberts, Leslie G. 10269
Collection: Bompiani, Enrico 12779

14F20 *Grothendieck cohomology and topology*

Artin, M.; et al. 7471
Bloch, Spencer; et al. (318)
Kawahara, Yusaku; et al. (310)
Milne, J. S. (7473)
Milne, J. S.; et al. 7471
Niitsuma, Hiroshi; et al. (310)
Ogus, Arthur; et al. (318)
Radu, Alexandru (10381)
Uchibori, Tomio; et al. (310)

14F25 *Classical real and complex cohomology*

Kawai, Sōichi 7472
Symposium on Complex Manifolds 7472

14F30 *p-adic cohomology*

Artin, M.; et al. (7471)
Grothendieck, Alexandre (*5250)
Milne, J. S. 7473
Milne, J. S.; et al. (7471)
Monsky, P. 10270
Ogus, Arthur 10271
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1

14Gxx Arithmetic problems (For complex multiplication, see 10D25, 14K22.)

14G05 *Rationality questions*

Colliot-Thélène, Jean-Louis; et al. 2657
Sansuc, Jean-Jacques; et al. 2657

14G10 *Zeta-functions and related questions*

Kiefe, Catarina 10272
Knopfmacher, John (12684)
Koblitz, Neal 2658
Manin, Ju. I. (5194)
Milne, J. S. 2659
Pimenov, M. V. (10274)
Ribet, Kenneth A. (7435)
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (7435)

14G13 *Weil-Tate conjectures*

Artin, M.; et al. 5240
Iskovskih, V. A. 319
Katz, Nicholas M. 12780
Swinnerton-Dyer, H. P. F.; et al. 5240

14G13 *Continued*

Tennison, B. R. 7474
Verdier, Jean-Louis 7475
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) 12780
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 7475

14G15 *Finite ground fields*

Chowla, P.; et al. (2587)
Chowla, S.; et al. (2587)
Harder, G. (12655)
Zarhin, Ju. G. (10278)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (12655)

14G20 *p-adic ground fields (local fields)*

Baldassarri, Francesco (284)
Brylinski, Jean-Luc (235)
Čerednik, I. V. (12783)
Drinfel'd, V. G. (10281)
Višik, M. M. (243)

14G25 *Global ground fields*

Ditters, E. J. (7486)
Fried, Michael 5241
Ligozat, Gérard (*5121,*10150)
Ogg, Andrew P. 5242
Ohta, Masami (7389)
Ribet, Kenneth A. (7379),12781
Rosen, Michael (5248)
Tate, John T. (7380)
Zimmer, Horst Günter 7476
Automorphic forms in number theory (10148)
Japan-U.S. Seminar on Applications of Automorphic Forms in Number Theory (Ann Arbor, Mich., 1975) (10148)
Number theory (10148)
Proceedings of the Number Theory Conference (Univ. Colorado, Boulder, Colo., 1972) 5241
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 5242

14G99 *None of the above, but in this section*

Demeyer, F. R.; et al. 320
Knebusch, Manfred (10218)
Knus, M. A.; et al. 320
Risler, J. J. (12761)
Stevens, John G. 10273
Séminaire Pierre Lelong (Analyse), Année 1974/75 (12761)

14Hxx Curves

Holmann, H. (*2949,*2950)
(Kaup, B.) (*2949,*2950)
Mumford, David (*7451)

14H05 *Algebraic function fields*

Karakaş, H. İbrahim 12782
Pomeranceva, L. I. (321)

14H10 *Families, moduli (algebraic)*

Oort, Frans (12771)

14H15 *Families, moduli (analytic)* [*See also* 32G15.]

Engber, Michael (3031,7861)
Kuribayashi, Akikazu 5243,(13141)
Lax, R. F. (13149)
Manin, Ju. I. (10153)
Current problems in mathematics, Vol. 3 (10153)

14H20 *Singularities, local rings*

Bresinsky, H. 2660
Delorme, Charles 7477
(Kmety, François) *2662
(Merle, Michel) *2662
Nobile, Augusto 2661
(Teissier, Bernard) *2662
Wahl, Jonathan M. (7460)
Zariski, Oscar *2662

14H25 *Arithmetic ground fields*

Artin, M.; et al. (7471)
Čerednik, I. V. 12783
Milne, J. S.; et al. (7471)
Pimenov, M. V. 10274

14H30 *Coverings, fundamental group*

Clemens, C. H. (10279)
Masiewicki, Leon (10280)
Tjurin, A. N. (2664)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10279)

14H35 *Correspondences*

Angermüller, Gerhard (10253)
Collino, Alberto (12767)
Gaeta, Federico 7478

14H40 *Jacobians* [*See also* 32G20.]

Clemens, C. H. (10279)
Collino, Alberto (5231)
Masiewicki, Leon (10280)
Sasaki, Ryuji 2663
Szpiro, Lucien 12784
Tjurin, A. N. 2664
Wada, Seishi 322
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10279)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 12784

14H45 *Special curves*

Bulataev, K. B. 2665
(Kmety, François) (*2662)
(Merle, Michel) (*2662)
Sasaki, Ryuji (2663)
Stoljarova, L. P. 12785
(Teissier, Bernard) (*2662)
Zariski, Oscar (*2662)
Collection: Candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III 2665

14H99 *None of the above, but in this section*

Abelson, Harold 12786
Gasca González, Mariano (10871,10872)
Knebusch, Manfred (10218)
Mount, K. R.; et al. (12768)
Villamayor, O. E.; et al. (12768)

14Jxx Surfaces and 3-dimensional varieties

14J10 *Families, moduli, classification: algebraic theory*

Tjurin, A. N. 323

14J15 *Singularities, moduli, classification: analytic theory* [*See also* 32J15.]

Casas Alvero, Eduardo 2666
Cherenack, P. 12787
Inoue, Masahisa 5244
Shah, Jayant (5246)
Symposium on Complex Manifolds (Kyoto, 1974) 5244

14J20 *Arithmetic ground fields*

Artin, M.; et al. (5240)
Fontana, Marco 2667
Paršin, A. N. 7479
Swinnerton-Dyer, H. P. F.; et al. (5240)

14J25 *Special surfaces*

Artin, M.; et al. (5240)
Godeaux, Lucien 10275,12788
Hirzebruch, F. 5245
Horikawa, Eiji 12789
Kas, Arnold 10276
Mandelbaum, Richard; et al. (1256)
Marcus, Froim (1100)
Mojšezon, B. G.; et al. (1256)
Šafarevič, I. R. 7480
Sekackiĭ, V. V. (8474)
Shah, Jayant 5246
Shioda, T. 324
Swinnerton-Dyer, H. P. F.; et al. (5240)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7480
Collection: Bompiani, Enrico 12788
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 5245
Symposium on Complex Manifolds (Kyoto, 1974) 324

14J99 *None of the above, but in this section*

Lewin-Ménégaux, Renée (12774)
May, Coy L. (13071)
Miyanishi, Masayoshi 7481

14Kxx Abelian varieties and schemes

14K05 *Algebraic theory*

Kas, Arnold (10276)
Morgan, Christopher L. 10277

14K10 *Algebraic moduli, classification*

Oort, Frans (12771)

14K15 *Arithmetic ground fields*

Abraškin, V. A. 7482
Ditters, E. J. (7485,7486)
Gunji, Hiroshi 325
Imai, Hideo 5247
Katz, Nicholas M. (5120)
Ogg, Andrew P. (5242)
Ribet, Kenneth A. (12781)
Rosen, Michael 5248
Tate, John T. (7380)
Zarhin, Ju. G. 10273
Zimmer, Horst Günter (7476)
Automorphic forms in number theory (10148)
Japan-U.S. Seminar on Applications of Automorphic Forms in Number Theory (Ann Arbor, Mich., 1975) (10148)
Number theory (10148)
Séminaire Delange-Pisot-Poitou (16e année: 1974/75), Fasc. 1 (5242)

14K20 *Analytic theory*

Lang, Serge *7483
(Manin, Ju. I.) *7483

14K22 *Complex multiplication* [*See also* 10D25.]

Koike, Masao (2595)
Ohta, Masami (7389)
Ovseevič, A. I. (278)
Shimura, Goro (12664)

14K25 *ϑ-functions*

Auslander, Louis; et al. (*2877)
Lang, Serge (*7483)
(Manin, Ju. I.) (*7483)
Sasaki, Ryuji (2663)
Satake, Ichiro (12657)
Shavel, Ira (12663)
Tjurin, A. N. (2664)
Tolimieri, Richard; et al. (*2877)
Weil, André (10156)

14K30 *Picard schemes, higher Jacobians*

Clemens, C. H. 10279
Lieberman, D. 12790
Masiewicki, Leon 10280
Tjurin, A. N. (323),12791
Zucker, Steven (313)
Algebraic geometry, Oslo, 1970 12790
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 10279

14Lxx Group schemes (For linear algebraic groups, see 20Gxx.)

14L05 *Formal groups, p-divisible groups*

Abraškin, V. A. 5249
Cartier, Pierre 7484
Ditters, E. J. 7485,7486
Drinfel'd, V. G. 10281
Grothendieck, Alexandre *5250
Karoubi, Max (1263)
Lazard, Michel 5251,5252
Nakaoka, Minoru (8679)
Würgler, Urs (6173)
Cinquantenario della Unione Matematica Italiana, 1922-1972 5251
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (1263)

14L15 *Group schemes*

Chase, Stephen U. (12731)
Gaudier, Henri 12792
Hesselink, Wim H. 5253
Horrocks, G. 7487
Morgan, Christopher L. (10277)
Tits, Jacques (12924)
Voskresenskiĭ, V. E. (10287)
Wischnewsky, Manfred B. 2668
Wright, C. K. 10282
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10287)

14L20 *Finite group schemes*

Mil'ner, A. A. (7567)
Raynaud, Michel 7488

14L25 *Pro-algebraic group schemes*

Magid, Andy R. 10283
Raynaud, Michel (7488)

14L99 *None of the above, but in this section*

Borovskiĭ, Ju. E. (315)
Ceresa-Genet, Giuseppe 12793
de Concini, C.; et al. (10305)
Fauntleroy, Amassa; et al. 5254
Hirschowitz, André (5234)
Kac, Victor G.; et al. 7489
Magid, Andy R. 5254
Popov, V. L. 5255
Popov, Vladimir L.; et al. 7489
Procesi, C.; et al. (10305)
Procesi, Claudio (7511,7512)
Vinberg, Ernest B. 7489
Wright, C. K. 12794
Geometry collection, No. 13 (315)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (5234)

14Mxx Special varieties

14M05 *Varieties defined by ring conditions (factorial, Macaulay)*

Casas Alvero, Eduardo (2666)
Eakin, Paul; et al. (7449)
Eisenreich, Günther 5256
Emler, Werner 5257
Greco, Silvio 10284
Gröbner, Wolfgang; et al. 5258
Manolache, Nicolae 12795
Odetti, Francesco 2669
Reitberger, Heinrich; et al. 5258
Rettel, Jürgen 12796
Sathaye, Avinash; et al. (7449)
Vogel, Wolfgang 5259
Beiträge zur algebraischen Geometrie 5256-5259,12796

14M10 *Complete intersections*

Barth, Wolf 10285
Brizolis, Demitrios (2643)
Brückmann, Peter 5260
Cassa, Antonio (597)
Chen, Bang Yen; et al. 5261
Eisenbud, David (12735)
Godeaux, Lucien (10266)
Kempf, George R. (12799)
Ogiue, Koichi; et al. 5261
Tennison, B. R. (7474)
Tjurin, A. N. (12791)
Yamashima, Shigeho 5262
Collection of articles dedicated to Mauro Picone on the occasion of his ninetieth birthday (10266)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 10285,(12735)

14M15 *Grassmannians, homogeneous spaces*

Contou-Carrère, Carlos E. (11344)
Demazure, Michel 2670,(7458)
Hinič, V. A. 12797
Ilori, S. A. 12798
Kac, Victor G.; et al. (7489)
Kempf, George R. 12799
Lascoux, Alain (12762)
Matsushima, Yozo (6176)
Popov, Vladimir L.; et al. (7489)
Svanes, Torgny 7490
Tango, Hiroshi 7491
Vinberg, Ernest B.; et al. (7489)

14M20 *Rational varieties*

Burau, W. 10286
Deligne, Pierre (5233)
Miyanishi, Masayoshi 7481
Shioda, T. (324)
Voskresenskiĭ, V. E. 10287
Beiträge zur algebraischen Geometrie 10286
Proceedings of the International Congress of Mathematicians 10287
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (5233)
Symposium on Complex Manifolds (Kyoto, 1974) (324)

14M99 *None of the above, but in this section*

Castillon, Jean-Bernard 10288
Hochster, Melvin; et al. (5230)
Roberts, Joel L.; et al. (5230)
Rosset, Shmuel 10289
Wright, C. K. (10282)

14Nxx Classical methods and problems

14N05 *Projective techniques*

Cheung, Alan; et al. 10290
Crapo, Henry; et al. 10290
Fljaĭser, A. (6034)
Hohenberg, Fritz 5263
Kazakova, G. G. 326
Kuznecova, V. A.; et al. 327
Muran, K. V.; et al. (7464)
Roberts, Joel (10265)
Skopec, R. Z. 328,329
Skopec, Z. A.; et al. 327,(7464)
Spesivõhh, V. (5387)
Stoljarova, L. P. (12785)
Tjurin, A. N. (12791)
Geometry and topology, No. 1 327-329,(7464)

14N10 *Enumerative problems*

Babbage, D. W. 5264
Beltrametti, M. 5265
Bulataev, K. B. (2665)
Demazure, Michel (7458)
(Guazzone, Stefano) 5264
Laumon, Gérard (2650)
Peters, C. A. M.; et al. 7492
Rettel, Jürgen (12796)
Simonis, J.; et al. 7492
Svanes, Torgny (7490)
Beiträge zur algebraischen Geometrie (12796)
Collection: Candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III (2665)

15—XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

Bose, N. K. (4733)
Recent trends in systems theory (4733)

15-01 *Elementary exposition (collegiate level)*

Drozdov, N. D. *2671
Glässner, Ekkehart; et al. *12800
Lee, Peng Yee 2672
Pedoe, Daniel *2673
Schaal, Hermann; et al. *12800

15-02 *Advanced exposition (research surveys, etc.)*

Butler, Kim Ki-Hang *2674
Golovina, L. I. *2675

15-03 *Historical*

(Hamilton, William Rowan) (4896)
(Pohle, F. V.) (4896)
van der Waerden, B. L. (4896)

15A03 *Vector spaces, linear dependence, rank*

Amir-Moez, Ali R.; et al. 2676
Hoggar, S. G. 12801
Ruiz Tolosa, Juan Ramón 12802
Stubbs, Patricia A.; et al. 2676

15A06 *Linear equations*

Abian, Alexander 12803
Arora, J. L. (9062)
Berman, Abraham; et al. 330
Borosh, I. 10291
Chew, Kim Ho 10292
Drogomiže'ka, M. M. 10293
Neumann, Michael; et al. 330

15A09 *Matrix inversion, generalized inverses*

Aronowitz, S.; et al. 2677
Baksalary, J. K.; et al. (9068)
Dobek, A.; et al. (9068)
Domine, Robert 7493
Eichinger, B. E.; et al. 2677
Gardner, Robert B. (10235)
Hoard, R. E.; et al. 2678
(Hoard, R. E.) 2679
Huband, F. L.; et al. 2678
(Huband, F. L.) 2679
Kala, R.; et al. (9068)
Kesava Menon, P. 2680
Rao, C. Radhakrishna 5266
Rothblum, Uriel G. 10294
Sautter, W. 7494
Simaan, M. 2679

15A15 *Determinants, permanents, other special functions*

Anderson, Oliver D. 7497,7498
Beasley, Leroy B.; et al. 7495
Brenner, J. L. 5267
Cummings, Larry; et al. 7495
Cvetković, D. M. (10066)
Evans, R. J.; et al. 332
Graham, R. L.; et al. 5268
Grünbaum, F. Alberto 2681
Isaacs, I. M.; et al. 332
Lehmer, D. H.; et al. 5268
Little, C. H. C. (12542)
(Schlegel, P. R.) 7497,7498
Schlegel, Palmer R. 7496
Thompson, R. C. 2682
Collection: Taussky-Todd, Olga 2682
Discrete mathematics (10066)

15A18 *Eigenvalues and eigenvectors*

Cain, Bryan E. 7499
Dewilde, P.; et al. 5269
Geissinger, Ladnor 2683
Goldberg, Moshe; et al. 10295
Kane, T. R.; et al. (11794)
Powers, David L. (7028)
Taylor, D. L.; et al. (11794)
Thompson, R. C. 12804,12805
Vahrenkamp, Richard (9067)
Vandevalle, J.; et al. 5269
Zwas, Gideon; et al. 10295
Collection: Taussky-Todd, Olga 12804

15A21 *Canonical forms, reductions, classification*

Chalkley, Roger 7500
Ciampi, A. (*8722)
Feinberg, Robert B. 10296
Gibson, C. G. (3020)
Golub, G. H.; et al. (1570)
Grünbaum, F. Alberto 2684
Padberg, Manfred W. 2685
Radjavi, Heydar 2686
Ricci, Paolo Emilio (7419)
Wilkinson, J. H.; et al. (1570)
Willoughby, Ralph A. (6475)
Wimmer, Harald K. 333
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) (6475)

15A24 *Matrix equations and identities*

Đoković, Dragomir Ž. 2687
Gibson, P. M. 334
Kazimirskiĭ, P. S. 12806
Khatri, C. G.; et al. 5270
Klarner, David A. 2688
Kuo, Wang Yüeh Ngo 7501
Lupaş, L.; et al. 10297
Mitra, Sujit Kumar; et al. 5270
Petričković, V. M. 335
Petričković, V. M.; et al. 336
Popeea, C.; et al. 10297
Porter, A. Duane 2689
Šuljar, M. A.; et al. 336
Wimmer, Harald K. 10298
Mathematical methods, and physical and mechanical fields, No. 1 335,336
Mathematical methods, and physical and mechanical fields, No. 2 12806

15A27 *Commutativity*

Freedman, H. I. 5271

15A30 *Algebraic systems of matrices* [*See also* 16A42, 20Gxx, 20Hxx.]

Castaldo, Pietro 10299
Gains, F. J.; et al. (2768)
Hoehnke, H.-J. 2690
Hudiĭ, M. Ĭ. 12807
Kaya, E. 2691
Laffey, T. J.; et al. (2768)
Loupias, Michèle 337
Nazarova, L. A.; et al. (*360)
Otraševs'ka, V. V. 338
Roĭter, A. V.; et al. (*360)
Representations of algebras (Proc. Internat. Conf., Carleton Univ., Ottawa, Ont., 1974) 337
Rings, modules and radicals (Colloq., Keszthely, 1971) 2690

15A33 *Matrices over special rings (quaternions, finite fields, etc.)*

Gyires, Béla 2692

15A36 *Matrices of integers* [*See also* 10M20.]

Taussky, Olga (5178)

15A39 *Linear inequalities*

Greenberg, Harold (14366)
Thämelt, Wolfgang 339

15A42 *Inequalities involving eigenvalues and eigenvectors*

Eaton, Morris L. (5272)
Sing, Fuk Yum 12808
Witsenhausen, H. S. 340

15A45 *Miscellaneous inequalities involving matrices*

Datta, B. N. 2693
Johnson, Charles R. 12809
Marcus, Marvin 7502
Merris, Russell 341
Theobald, C. M. 2694
Thompson, R. C. 7503

15A48 *Positive matrices and their generalizations*

Anderson, William N., Jr.; et al. (14876)
Barnett, Stephen (9747)
Berman, Abraham; et al. 10300
Fam Van At (14334)
Fiedler, M. 2695
Hedrick, Mark Blondeau 2696
Meenakshi, A. R. 5273
Montemayor, J. J.; et al. 342
Reynolds, Donald; et al. (14876)
Trapp, George; et al. (14876)
Ward, Robert C.; et al. 10300
Womack, Baxter F.; et al. 342
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 2695

15A51 *Stochastic matrices*

Brualdi, R. A.; et al. 343
Csima, J.; et al. 343
Gibson, P. M. 7504
Knopp, Paul J.; et al. 10301
Mauldon, J. G. 344
Sinkhorn, Richard 10302
Sinkhorn, Richard; et al. 10301
Wang, Edward T. H. 12810

15A54 *Matrices over function rings in one or more variables*

Pearce, C. E. M.; et al. 12811
Potts, R. B.; et al. 12811

15A57 *Other types of matrices (hermitian, skew-hermitian, etc.)*

Anderson, Brian D. O.; et al. 5274
Ballantine, C. S. 2697
Chong, F. 13706
Dewilde, Patrick; et al. 2700
Friedland, S.; et al. 2698
Jury, E. I.; et al. 5274
Loewy, R.; et al. 2698
Loewy, Raphael 2699a-b
Vandewalle, Joos P.; et al. 2700
Watson, Layne T. (6946)
A spectrum of mathematics (Essays presented to H. G. Forder) (13706)

15A60 *Norms of matrices, applications of functional analysis to matrix theory* [*See also* 65F35, 65J05.]

Barker, George Phillip 2701,12812
Bauer, F. L. (6476)
Kolodner, Ignace I. (13566)
Merikoski, Jorma 10303
Webber, Robert P. 5275
Collection of articles honoring Alston S. Householder (6476)

15A63 *Quadratic and bilinear forms, inner products*

Arason, J. (12642)
Asai, Teruaki (10434)
Diminnie, Charles; et al. (13544)
Gähler, Siegfried; et al. (13544)
Lannes, J. (231)
Legrand, D. 2702
Pfister, Albrecht (12638,12639)
Scharlau, Rudolf 7505
Shapiro, Daniel B. 345
White, Albert; et al. (13544)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12639)
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) (12638)
Séminaire de Théorie des Nombres, 1972-1973 (Univ. Bordeaux I, Talence) (12642)

15A66 *Clifford algebras*

Micali, Artibano (232)
Séminaire P. Dubreil (26e année: 1972/73) (232)

15A69 *Multilinear algebra, tensor products*

Chang, Shui Chi 5276
Kuo, Wang Yüeh Ngo 5277
Lim, M. H. 10304
Sah, Chih Han 7506
Watkins, William 12813

15A72 *Vector and tensor algebra, theory of invariants*

Aržanyh, I. S. 5278
Borovskiĭ, Ju. E. (315)
de Concini, C.; et al. 10305
Cummings, L. J. 5279
Dieudonné, Jean 7507
Doubilet, Peter; et al. 7508
Jasjiulionis, A. 5280
Kac, Victor G.; et al. (7489)
León Álvarez, J. 7509
Lim, M. H. 7510
Popov, Vladimir L.; et al. (7489)
Procesi, C.; et al. 10305
Procesi, Claudio 7511,7512
Rota, Gian-Carlo; et al. 7508
Vinberg, Ernest B.; et al. (7489)
Višnevskiĭ, V. 7513
Voskresenskiĭ, V. E. (10287)
Geometry collection, No. 13 (315)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10287)
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 7510
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 7507

15A75 *Exterior algebra, Grassmann algebras*

Atkin, R. H. (12257)
Formisano, Maria Rosaria (363)
Park, Jong Geun 2703

15A99 *None of the above, but in this section*

Edelmann, Hans 331

16—XX ASSOCIATIVE RINGS AND ALGEBRAS (For the commutative case, see 13—XX.)

16-02 *Advanced exposition (research surveys, etc.)*

Anderson, Frank W.; et al. *5281
Bourbaki, N. *5282
Fuller, Kent R.; et al. *5281
Lambek, Joachim *7514
Maury, G. (*12819)

16-06 *Collections of papers; proceedings of conferences*

(Cozzens, J. H.) *10306
(Sandomierski, F. L.) *10306
International Conference on Noncommutative Ring Theory (Kent State Univ., Kent, Ohio, 1975) *10306
Noncommutative ring theory (Internat. Conf., Kent State Univ., Kent, Ohio, 1975) *10306
Ring theory *10306

16A02 *Integral domains, unique factorization domains (noncommutative)*

Fried, E.; et al. (10372)
Sichler, J.; et al. (10372)

16A06 *Free algebras, free ideal rings (fire) and their generalizations* [*See also tensor algebras in* 15A72.]

Cohn, P. M. (12511a-b)
Cohn, P. M.; et al. 12814
Dicks, Warren; et al. 12814

16A08 *Rings of quotients, noncommutative localization*

Amitsur, S. A. 2704
Cozzens, J. H.; et al. 7515
van Geel, Jan; et al. 12815
Huang, Han Shui 7516
Hutchinson, John J.; et al. 7517
Kašu, A. I. 10307
Lesieur, Léonce 2705
Louden, Kenneth 5283
Lü, Ch'i Mu 2706
Lü, Ch'i Mu; et al. 7517
Morita, Kiiti *5284
van Oystaeyen, F. *7518
van Oystaeyen, F.; et al. 5285,(10380),12815
Popescu, Nicolae 10308
Sandomierski, F. L.; et al. 7515
Sim, S. K. 7519
Verschoren, A.; et al. 5285,(10380)
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71), Fasc. 1 2705

16A10 *Noncommutative local rings*

Smith, P. F. 10309

16A12 *Prime and semiprime rings*

Burgess, Walter D.; et al. 10310
Meyne, Joseph H. 7520
Raphaël, Robert; et al. 10310
Szász, F. 7521

16A14 *Noncommutative analogues of Dedekind and Prüfer domains*

Bican, Ladislav 10311
Chatters, A. W. 7522
Fliess, Michel 7523
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 7523

16A16 *Separable algebras, Azumaya algebras and their generalizations [See also 13A20.]*

Cohen, Miriam 346
Delale, J. P. 5286
Fein, Burton; et al. (12716)
Ford, Nicholas S. 2707
Goldie, Alfred 2708
Knus, Max-Albert; et al. (*5209)
Mollin, R. (10209)
Ojanguren, Manuel 12816
Ojanguren, Manuel; et al. (*5209)
Schacher, Murray; et al. (12716)
Sweedler, Moss Elsenberg 10312
Szeto, George 12817
Yamada, Toshihiko (5185)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 10312
Séminaire d'Algèbre Non Commutative (année 1974), Deuxième partie 5286

16A18 *Orders, arithmetic in algebras*

Cozzens, J. H. 7524
Falk, Daniel 2709
Lamèche, Khira 7525
Matchett, Andrew 12818
Maury, G. *12819
Séminaire Delange-Pisot-Poitou (12e année: 1970/71) 7525

16A20 *Primitive and semiprimitive rings*

Bell, H. E. 7556
Zelmanowitz, Julius 10313

16A21 *Radical theory*

Bican, L.; et al. 2710,2711
Hongan, Motoshi; et al. 7526
Jambor, P.; et al. 2710,2711
Kepka, T.; et al. 2710,2711
Leavitt, W. G.; et al. 10314
van Leeuwen, L. C. A. 347
Němec, P.; et al. 2710,2711
Propes, R. E.; et al. 10315
Stewart, Patrick N. 2712,2713
Szász, Ferenc Andor 5287,5288
Tètyrcè, E. I. 2714
Tominaga, Hisao; et al. 7526
Varadarajan, K. 10316
Watters, J.; et al. 10314
Wiegandt, Richard 2715,10317
Zaidi, A. M.; et al. 10315
Studies in mathematics (in honor of A. Almeida Costa) 5288

16A24 *Hopf algebras, algebraic theory [See also 57F05.]*

Green, J. A. 348

16A26 *Group rings [See also 20C05.]*

Brown, Kenneth A. 2716
Carlson, Jon F. 7527
Farkas, Daniel R.; et al. 10318
Fisher, J. L.; et al. 5289
Goursaud, J. M.; et al. 349
Gutiérrez, M. A. 10319
Jordan, Camilla R. 7528
Lawrence, John; et al. 2717
Lorenz, Martin 12820
Matsuda, Ryūki 7529
May, Warren 2718
McGregor, Colin M. 7530
Mihalev, A. V.; et al. 2723
Parmenter, M. M.; et al. 5289
Puczyłowski, E. R. 2719
Roggenkamp, K. W.; et al. 350
Schmidt, J. W.; et al. 350
Sehgal, Sudarshan K.; et al. 5289
Sinha, I. 2720,10320
Smith, P. F. 351
Snider, Robert L. 2721,2722
Snider, Robert L.; et al. 10318
Valette, J.; et al. 349
Woods, Sheila M.; et al. 2717
Zalesskiĭ, A. E.; et al. 2723
Current problems in mathematics, Vol. 2 2723
Séminaire d'Algèbre Non Commutative (année 1974), Deuxième partie 349

16A28 *Rings with involution [See also 46Kxx.]*

Lanski, Charles 352,353
Lee, Pjek Hwee 354
Montgomery, Susan 12821

16A30 *von Neumann regular rings and their generalizations [See also 06A30.]*

Burke, John L. 5290
Dinh Van Huynh; et al. 12822
Dischinger, Friedrich 10321
Fisher, Joe W.; et al. 7531
Handelman, David 5291
Peterson, Roger D. 10322
Pieri, Jean-François 5292a-b
Snider, Robert L.; et al. 7531
Tominaga, Hisao 7532
Widiger, Alfred; et al. 12822
Zaharov, V. K. 10323
Séminaire P. Lefebvre (année 1968/1969) 5292a-b

16A32 *Idempotents in rings*

Kirkman, Ellen E. 10324

16A34 *Rings with annihilator conditions*

Zelmanowitz, J. M. 7533

16A36 *Frobenius algebras, quasi-Frobenius rings and their generalizations*

Camillo, V. P.; et al. 5293
Faith, Carl 5294
Fuller, K. R.; et al. 5293
Izawa, Tatsuo 10325
Shock, Robert 12823

16A38 *Rings with polynomial identity*

Amitsur, S. A. 7534,10326
Harčenko, V. K. 12824
Leron, Uri 7535
Razmyslov, Ju. P. 7536
Robson, J. C.; et al. 10327
Schelter, William 5295
Small, Lance W.; et al. 10327
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7534

16A40 *Division rings, simple and semisimple Artin rings*

Fein, Burton; et al. (5199)
Hikari, Michitaka 5296
Miličić, Pavle M. 5297
Platonov, V. P. 355,10328a-b,(10433)
van Praag, Paul (291)
Rosset, Shmuel (10289)
Rudenko, A. B. 10329
Schacher, Murray; et al. (5199)
Sonn, Jack (10202)
Yamada, Toshihiko (5185)
Geometry collection, No. 13 10329

16A42 *Rings of linear transformations, matrix rings, infinite matrix rings*

Amitsur, S. A. 10330
Gustafson, William H. 10331
Hutchinson, John J. 12825

16A46 *Chain conditions; finite dimensional algebras, Artin rings, Noetherian rings*

Alev, Jack 2724
Brungs, H. H.; et al. 7537
Dark, R. S. 7538
Dinh Van Huynh; et al. 12826
Formanek, Edward; et al. 2725
Ginn, Stephen M. 356
Haghany, Ahmad 7539
Hauger, G. 7540
Jategaonkar, Arun Vinayak; et al. 2725
Kertész, Andor; et al. 12826
Lenagan, T. H. 7541
Năstăsescu, Constantin 2726
Niță, Constantin 7542
Skornjakov, L. A. 7543
Törner, G.; et al. 7537
Zimmermann, Wolfgang 7544

16A48 *Structure, classification*

Anan'in, A. Z.; et al. (10104)
Andrijanov, V. I.; et al. 10332
Goodearl, K. R.; et al. 357
Hmel'nickiĭ, I. L.; et al. 10332
Kemer, A. R.; et al. (10104)
Luh, Jiang; et al. 12827
Manocha, Jitendra N. 2727
Nicholson, W. K. 10333
Sontag, Eduardo D. 5298
Törner, Günter 358
Wang, Johnson C. K.; et al. 12827
Warfield, R. B., Jr.; et al. 357

16A49 *Duality theory*

Cohn, P. M. *2728,*10334
Kerner, Otto 7545
MacKenzie, R. E. 2729

16A50 *Projective and flat modules and generalizations*

Bican, L. 12828
Jøndrup, S. 7546
Parimala, S. (7469)
Varadarajan, K. 2730

16A52 *Injective modules, self-injective rings and generalizations*

Ahsan, Javed 2731
Birkenmeier, G. F. 7547
Couchot, François 10335
Jain, S. K.; et al. 12829
Koehler, Anne 7548
Mehran, H. A. 5299
Mohamed, Saad 7549
Singh, Surjeet; et al. 12829
Symonds, R. G.; et al. 12829
Zaharov, V. K. (10100)

16A54 *Grothendieck groups of rings, K-theory of noncommutative rings* [*See also* 18F25.]

Acharya, A. N. (5362)
Platonov, V. P. 12830

16A56 *Extension theory*

Kishimoto, Kazuo 10336
Nishida, Kenji 12831

16A60 *Homological dimension*

Green, Edward L. 5300

16A62 *Homological methods* [*For cohomology of algebras and rings, see* 18H15.]

Baumslag, Gilbert 359
Grigorjan, A. G. 10337

16A64 *Modules and representations*

Auslander, M.; et al. 7550
Auslander, Maurice 12832
Berry, David 5301
(Borevič, Z. I.) *10339
Cheatham, T. J.; et al. 10338
Couture, Raymond; et al. 2732
Green, E. L.; et al. 7550
Harada, Manabu 12833
Kado, Jiro 7551
Lavoie, Mario; et al. 2732
Loupias, Michèle (337)
Müller, Wolfgang 12834
Nazarova, L. A.; et al. *360
Reiten, I.; et al. 7550
Ringel, Claus Michael 10340
Roĭter, A. V.; et al. *360
(Skopin, A. I.) *10339
Smith, J. R.; et al. 10338
Spulber, Dorian 2733
Teply, Mark L. 5302
Zimmermann-Huisgen, Birge 12835
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 12832
Algebraic geometry *10339
Modules in representation theory and algebraic geometry *10339
Proceedings of the International Conference on Representations of Algebras (Carleton Univ., Ottawa, Ont., 1974) 7550,12834
Representation theory *10339
Representations of algebras (Proc. Internat. Conf., Carleton Univ., Ottawa, Ont., 1974) (337)

16A66 *Ideal theory, prime ideals and their generalizations*

Cauchon, Gérard 7552
Chacron, M.; et al. 10341
Leavitt, W. G. 12836
Luh, Jiang 2734
Newell, Martin L. 7553
van Oystaeyen, F. 12837
Szeto, George 10342
Thierrin, G.; et al. 10341
Wong, Edward T. 10343
Séminaire d'Algèbre Non Commutative (année 1973/74), Première partie 7552

16A68 *Lie, Jordan and other nonassociative structures on associative rings*

Awtar, Ram 361
Bamba, Kanté Siaka 7554
Martindale, Wallace S., 3rd. 10344
Smith, Martha K. 7555

16A70 *Commutativity theorems*

Awtar, Ram
Bell, Howard E. 2735
Chacron, M. 2736
Dolan, S. W. 2737
Kaya, A. 10345
Koç, Cemal 2738
Ligh, S.; et al. 12838
Luh, J.; et al. 12838
Streb, W. 7557

16A76 *Near rings*

Adams, William B. 2739
Mason, Gordon 7558

16A78 *Semirings and other generalizations of rings*

Allen, Paul J.; et al. 12839
Dale, Louis; et al. 12839
Fljaĭser, V. 362
Poyatos Suárez, Francisco 10346
Ramalho, Margarita 7559
Redi, E. (5087)

16A80 *Topological rings and semirings* [*For ordered rings, see* 06A70; *see also* 13Jxx.]

Andrunakievič, V. A.; et al. 10347
Arnautov, V. I.; et al. 10347
Ballet, Bernard 10348
Formisano, Maria Rosaria 363

17—XX NONASSOCIATIVE RINGS AND ALGEBRAS

17-02 *Advanced exposition (research surveys, etc.)*

Jenner, W. E. *10349

17Axx General nonassociative algebras

17A05 *Power-associative*

Sagle, Arthur A. (11224)

17A10 *Commutative power-associative*

Schafer, R. D. 10350
Collection: Albert, Abraham Adrian 10350

17A15 *Noncommutative Jordan algebras*

Britten, Daniel J. 12840
Goldman, Jerry I.; et al. 7560
Kokoris, Louis A.; et al. 7560
Patil, K. B.; et al. 5304
Racine, M. L. 5303
Racine, M. L.; et al. 5304

17A20 *Flexible algebras*

Myung, Hyo Chul 10351

17A30 *Algebras satisfying other identities*

Burgin, M. S. (5089)
Hentzel, Irvin Roy 5305
Kleinfeld, Margaret H. 2740, 12841
Koh, Kwangil; et al. 12842
Luh, Jiang; et al. 12842
Pčelincev, S. V. 10352
Putcha, Mohan S.; et al. 12842
Smith, Harry F. 7561

17Bxx Lie algebras {For lie groups, see 22Exx.}

17B05 *Structure theory*

Bahturin, Ju. A.; et al. 7562
Dixmier, Jacques 12843
Mickelsson, Jouko 2741
Neuvonen, Timo 5306
Ol'šanskiĭ, A. Ju.; et al. 7562
Stewart, Ian 7563
Štukar', V. L. 364

17B10 *Representations, algebraic theory (weights)*

Đoković, Dragomir Ž. 10353
Havlíček, M.; et al. 10354
Lassner, W.; et al. 10354
Lemire, F. W. 10355
Nahm, W.; et al. 12844,12845
Rittenberg, V.; et al. 12844,12845
Scheunert, M.; et al. 12844,12845

17B15 *Representations, analytic theory*

Mickelsson, J.; et al. (10501)
Niederle, J.; et al. (10501)

17B20 *Simple, semisimple, reductive algebras (roots)*

Kuznecov, M. I. 10356
(Lee, Che Young) *365
Nahm, W.; et al. 2742a-b
Rittenberg, V.; et al. 2742a-b
Scheunert, M.; et al. 2742a-b
Wallach, Nolan R. (10505)
Wan, Chê Hsien *365
Wilson, Robert Lee 366

17B30 *Solvable, nilpotent algebras*

Lašhi, A. A. 2743
Smith, P. F. (10309)
Collection: Algebra, 1 2743

17B35 *Universal enveloping algebras*

Alev, Jak 10357
Borho, Walter 10358
Borho, Walter; et al. 367
Dixmier, Jacques 7564
Kraft, Hanspeter; et al. 367
Malliavin-Brameret, Marie-Paule 10359
Moeglin, Colette 7565
Smith, Martha K. (7555)
Tauvel, Patrice 7566
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 7564

17B40 *Automorphisms, derivations, other operators*

Berman, Stephen 10360
Hakimdžanov, Ju. B. 10361
Hirai, Takeshi 368
Morimoto, Tohru (8661)

17B50 *Lie p-algebras and bialgebras (Hopf algebras) of formal groups* [*See also* 14L05, 16A24.]

Mil'ner, A. A. 7567

17B55 *Homological methods in Lie algebra* [*For homology of Lie algebras, see* 18H25.]

Baumslag, Gilbert (359)
Garland, Howard; et al. 2744
Leĭtes, D. A. 10362
Lepowsky, James; et al. 2744

17B60 *Lie rings associated with other structures (associative, Jordan, etc.)* [*See also* 15A30, 16A68, 17C40, 17C50.]

Martindale, Wallace S., 3rd. (10344)
Yamaguti, Kiyosi 5307

17B65 *Infinite dimensional Lie algebras* [*See also* 22E65.]

Kubo, Fujio 10363
Perchik, James (13930)
Vey, Jacques (8765)

17B99 *None of the above, but in this section*

Artamonov, V. A. 369
Collection: Kuroš, Aleksandr Gennadievič 369

17Cxx Jordan algebras (commutative)

17C35 *Formally real domains of positivity* [*See also* 32Nxx.]

Janssen, Gerhard 12846
Tsao, Liang Chi (7388)

17C50 *Jordan rings associated with other structures* [*See also* 16A68, 17B60.]

Kühn, Oda 370

17D05 Alternative rings

Epp, Susanna Samuels 5308
Hentzel, Irvin Roy; et al. 10364
Kleinfeld, Erwin 12847
Pčelincev, S. V. 10365,10366
Piacentini Cattaneo, Giulia Maria; et al. 10364
Rich, Michael 7568

17E05 Other nonassociative rings and algebras

Abian, Alexander 7569
Artamonov, V. A. 7570
Dhombres, J. G. 2745
Enescu, Iolanda; et al. 10367
Enescu, Ion; et al. 10367
Gordon, William B. (12742)
Koecher, Max 12848
Stitzinger, Ernest L. 12849
Wessels, S. F. G. 2746

18—XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

18-01 *Elementary exposition (collegiate level)*

Hilton, Peter *10368

18-02 *Advanced exposition (research surveys, etc.)*

Calenko, M. S.; et al. *5309
Mac Lane, Saunders 2747
Šul'geĭfer, E. G.; et al. *5309

18-03 *Historical*

(Eilenberg, Samuel) (2387)
Mac Lane, Saunders (2387)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (2387)

18-06 *Collections of papers; proceedings of conferences*

(Bastiani, A.) *371
(Ehresmann, C.) *371
Algèbre des catégories *371
Category theory *371
Colloque sur l'Algèbre des Catégories, Deuxième (Amiens, 1975), Résumés des Conférences *371
Esquisses mathématiques, No. 24 (*12)
Esquisses mathématiques, No. 25 *372

18Axx General theory of categories and functors

18A05 *Definitions, generalizations*

Malara, F.; et al. 10369
Topencarov, Vladimir V. 373
Visini, G.; et al. 10369

18A15 *Foundation relations to logic and deductive systems* [*See also* 02-XX.]

Blanc, Georges; et al. (9983)
Blass, Andreas (2466)
Claude, Daniel 5310
Freyd, Peter 7571
Germano, Giorgio (2445)
(Landsburg, Steven) (*7257)
Lawvere, F. William (7256,*7257)
Makkai, M.; et al. (10009a-b)
Mijoule, Richard (10010)
Rambaud, Christiane; et al. (9983)
Reyes, G. E.; et al. (10009a-b)
Stout, Lawrence Neff (10015)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (7256)
Esquisses mathématiques, No. 22 5310

18A20 *Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)*

Michler, Lothar 2748
Pellegrino, Consolato 7572

18A25 *Functor categories, comma categories*

Harari, Sami 2749
Esquisses mathématiques, No. 11 2749

18A30 *Limits and colimits (products, sums, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)*

Bertin, Émile M. J. 10370
Durand, Robert 7573
Hardie, K. A. 12850
Ojock, G. E. 10371

18A35 *Complete categories, completions*

Barr, Michael 5311
Fay, Temple H. 12851
Lambek, J.; et al. 2750
Rattray, B. A.; et al. 2750

18A40 *Adjoint functors (representable functors, universal constructions, reflexivie subcategories, etc.), constructions of adjoints (Kan extensions, etc.)*

Botnaru, D. V. (11074)
Herrlich, H. (13832)

18A99 *None of the above, but in this section*

Gardner, B. J.; et al. 7574
Horrent, J.-J. 12852
Stewart, P. N.; et al. 7574
Esquisses mathématiques, No. 18 12852

18Bxx Special categories

18B05 *Category of sets, characterizations*

Cicogna, G. 374
Mahé, Louis (7255)
Stout, Lawrence Neff 2751

18B10 *Category of relations additive relations, semigroups* [*See also* 20Mxx.]

Fitz-Gerald, D. G. 5312

18B15 *Embedding theorems, universal categories* [*See also* 18E20.]

Fried, E.; et al. 10372
Hedrlín, Z. 7575
Koubek, Václav 5313
Šedivá-Trnková, Věra 2752
Sichler, J.; et al. 10372
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7575
Recent advances in graph theory (Proc. Second Czechoslovak Sympos., Prague, 1974) 2752

18B20 *Categories of machines, automata, operative categories* [*See also* 02F10, 68A25, 94A30, 94A35.]

Adámek, Jiří 5314
Arbib, Michael A.; et al. 2753
Benson, David B. (375)
Chaudhry, Muhammad Anwar (9886)
Elgot, Calvin C. (1698)
Goguen, J. A.; et al. 10373
Jalobeanu, M. 5315
Manes, Ernest G.; et al. 2753
Thatcher, J. W.; et al. 10373
Wagner, E. G.; et al. 10373
Wright, J. B.; et al. 10373
Logic Colloquium '73 (Bristol, 1973) (1698)

18B99 *None of the above, but in this section*

Bentley, H. L.; et al. (13840)
Herrlich, H.; et al. (13840)
Hoehnke, H.-J. (2690)
Robertson, W. A.; et al. (13840)
Šedivá-Trnková, Věra 5316
Wiweger, Antoni 10374
Rings, modules and radicals (Colloq., Keszthely, 1971) (2690)

18Cxx Categories and algebraic theories

18C10 *Theories (e.g. algebraic theories), structure, and semantics*

Burroni, Albert 7576,12853
Diers, Y. 7577
Freyd, Peter 376
Galuzzi, Massimo 5317
Lair, Christian 10375
Manes, Ernest G. *7578
Rossi, Fabio 377a-b
Wand, Mitchell 10376
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 376
Esquisses mathématiques, No. 5 7576
Esquisses mathématiques, No. 23 10375

18C15 *Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples* [*See also* 18Gxx.]

Diers, Yves 5318
Lim, Chong Keang 7579
Zöberlein, Volker 12854

18Dxx Categories with structure

18D05 *Double categories, 2-categories, bicategories, hypercategories*

Bourn, Dominique 12855
Gray, John W. 378
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 378

18D10 *Monoidal categories (= multiplicative categories)*

MacKenzie, R. E. (2729)

18D15 *Closed categories (closed monoidal and cartesian closed categories, etc.)*

Calvo, Bernard 2754
Nel, L. D. (13833)
Pavelka, Jan 2755
Topology (Proc. Ninth Annual Spring Topology Conf., Memphis State Univ., Memphis, Tenn., 1975) (13833)

18D20 *Enriched categories (over closed or monoidal categories)*

Fisher-Palmquist, J.; et al. 7580
Heath, Philip R.; et al. (13905)
Kamps, Klaus Heiner; et al. (13905)
Palmquist, P. H.; et al. 7580
Pultr, Aleš (4986)
Wolff, Harvey 379

18D35 *Structured objects in a category (group objects, etc.)*

Barthélémy, Jean-Pierre 10377
Esquisses mathématiques, No. 12 10377

18Exx Abelian categories

18E05 *Preadditive, additive categories*

Grigorjan, A. G. (10337)
Lelahi, Kazem 380
Walker, C. L.; et al. 2756
Warfield, R. B., Jr.; et al. 2756
Weidenfeld, Gérard 7581
Weidenfeld, Michèle 7582
Wischnewsky, Manfred B. (2668)
Esquisses mathématiques, No. 3 7581,7582
Esquisses mathématiques, No. 7 380

18E15 *Grothendieck categories*

Porter, Timothy 10378

18E20 *Embedding theorems* [*See also* 18B10.]

Gisin, V. B. 7583

18E25 *Derived functors and satellites*

Džanelidze, G. Z. 10379
van Oystaeyen, F.; et al. 10380
Verschoren, A.; et al. 10380

18E40 *Torsion theories, radicals*

Bican, Ladislav; et al. (2711)
Gómez Pardo, J. L.; et al. 7584
Jambor, Pavel; et al. (2711)
Kepka, Tomáš; et al. (2711)
Kolman, L. A. (5216)
Němec, Petr; et al. (2711)
Porter, T. 12856
R-Grandjean L-Valcárcel, A.; et al. 7584

18E99 *None of the above, but in this section*

Guaraldo, Francesco; et al. (5225)
Loupias, Michèle (12581)
Macri, Patrizia; et al. (5225)
Séminaire d'Algèbre Non Commutative (année 1974/75) (12581)

18Fxx Categories and geometry

18F10 *Grothendieck topologies* [*See also* 14F20.]

Diaconescu, Radu 2757

18F20 *Presheaves and sheaves* [*See also* 14F05, 32C35, 32L10, 55B30.]

Isbell, John (10449)
Kennison, John F. 2758
Mulvey, Christopher J. (12759)
van Oystaeyen, F.; et al. (5285)
Radu, Alexandru 10381
Rocos, Pantelis 2759
Verschoren, A.; et al. (5285)

18F25 *Algebraic K-theory* [*See also* 13D15, 14F15, 16A54.]

Breen, Lawrence 12857
Dennis, R. Keith; et al. (279)
Inasaridze, H. N. (*7588)
Jouanolou, J. P. (5239)
Karoubi, Max (11309)
Keating, M. E. (7431)
Keating, Michael E.; et al. (279)
Keune, Frans 12858
Loday, Jean-Louis (*867)
Pardon, William 12859
Priddy, Stewart B. (1212)
Quillen, Daniel 10382
Ranicki, A. A. 2760a-d
Stein, Michael R.; et al. (279)
Tineo, Antonio (*8610)
Wall, C. T. C. 12860,12861
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11309)
Algebraic *K*-theory, I: Higher *K*-theories (5239),12858
Algebraic *K*-theory, III: Hermitian *K*-theory and geometric applications 2760c
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 10382
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 12857

18F99 *None of the above, but in this section*

Hoff, Georges 12862
Esquisses mathématiques, No. 23 12862

18Gxx Homological algebra

18G05 *Projectives and injectives* [*See also* 13C10, 16A50, 16A52.]

Hardie, K. A. 12863
Strebel, Ralph 5319

18G15 *Ext and Tor, generalizations, Künneth formula* [*See also* 55J25.]

Succi Cruciani, Rosanna 2761
Collection: Bompiani, Enrico 2761

18G20 *Homological dimension* [*See also* 13Dxx, 16A62.]

Cheng, Charles Ching An 7585

18G25 *Relative homological algebra, projective classes*

Edwards, David A.; et al. 12864
Hastings, Harold M.; et al. 12864

18G40 *Spectral sequences, hypercohomology* [*See also* 55Hxx.]

Succi, Francesco 2762
Collection: Bompiani, Enrico 2762

18G99 *None of the above, but in this section*

Morita, Kiiti (*5284)

18Hxx Cohomology of specified algebraic systems

18H05 *General methods; models* [*See also* 18E25, 18G25.]

Wagoner, J. B. 5320

18H10 *Cohomology and homology of groups* [*See also* 20Jxx.]

Brown, Kenneth S. (7700)
Dedecker, Paul; et al. 2763
Griess, Robert L., Jr. 12865
Insel, Arnold J. (2876)
Luks, Eugene M.; et al. 2763
Maiorana, James 12866
McQuillan, Donald L. (10221)

18H15 *Cohomology and homology of algebras and rings* [*See also* 16A62.]

Anderson, Frank W.; et al. (*5281)
Fuller, Kent R.; et al. (*5281)
Huq, S. A. 5321

18H20 *Cohomology and homology of commutative rings* [*See also* 13Dxx.]

André, Michel (12748)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (12748)

18H25 *Cohomology of Lie algebras* [*See also* 17B55.]

Perchik, James (13930)

18H40 *Cohomology of other algebraic systems*

Clark, W. Edwin 2764
Griffiths, H. B. 7586,7587
Inasaridze, H. N. *7588

20—XX GROUP THEORY AND GENERALIZATIONS (For ordered groups, see 06A55.)

20-01 *Elementary exposition (collegiate level)*

Mauve, Reinhard 7589

20-02 *Advanced exposition (research surveys, etc.)*

Beran, Ladislav *10383
Hall, Marshall, Jr. *2765

20-03 *Historical*

Brauer, R. (2384)
Neumann, B. H. 7590
(Thompson, John G.) (2384)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2384)

20-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Pless, Vera 2766
Vasil'ev, Ju. P. 7591,7592
Algebra, No. II 7591,7592
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 2766

20-06 *Collections of papers; proceedings of conferences*

(Černikov, S. M.) *10384
(Šunkov, V. P.) *5322
Group theory *5322,*10384
Some questions in group theory *10384
Studies in group theory *5322

20Axx Foundations

20A05 *Axiomatic and elementary properties*

Feigelstock, Shalom 381

20A10 *Metamathematical considerations [For word problems, see 20F10.]*

Baudisch, Andreas (10001)
Felgner, U. (10017)
Nebres, B. F. (2455)
Neumann, B. H. 2767
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) (2455)
Word problems: decision problems and the Burnside problem in group theory 2767

20Bxx Finite permutation groups

20B05 *General theory*

Duport, Jean-Pierre; et al. 12867
Dussaud, René; et al. 12867
Gaines, F. J.; et al. 2768
Herzog, Marcel; et al. 7593
Klevacev, V. I. 7594
Laffey, T. J.; et al. 2768
Moran, Gadi 2769
Nicolas, Jean-Louis (2604)
Praeger, Cheryl E. (7595)
Reid, K. B.; et al. 7593
Combinatorial mathematics, IV (Proc. Fourth Australian Conf., Univ. Adelaide, Adelaide, 1975) 7593

20B10 *Characterization theorems*

Kimura, Hiroshi 2770
Praeger, Cheryl E. 7595

20B15 *Uniprimitive groups*

Bürker, Michael; et al. 12868
Dempwolff, Ulrich 2771
Knapp, Wolfgang; et al. 12868
Scott, L. L. 12869

20B20 *Multiply transitive groups*

Bannai, Eiichi 5323
Klemm, Michael 382
Levingston, Richard; et al. 12870
Taylor, D. E.; et al. 12870

20B25 *Automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 20G40, 20H30, 50-XX.]*

Cooperstein, Bruce N. 383
Feĭnberg, V. Z.; et al. 2772
Gardiner, Anthony (143,144)
Haimo, Franklin (5090)
Rabinovič, E. B.; et al. 2772
Stölting, Rolf 12871
Tanaka, Genjiro (4870)
Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) (5090)

20B99 *None of the above, but in this section*

Gilpin, Michael (2479)
Glass, A. M. W. (*10097)

20Cxx Representation theory of finite groups

Golovina, L. I. (*2675)
Hill, Victor E. *7596
Labunec, V. G.; et al. (4841)
Sitnikov, O. P.; et al. (4841)

20C05 *Group rings and their modules [See also 16A26.]*

Cassou-Noguès, Philippe (5186)
Dennis, R. Keith 12872
Dress, Andreas 12873
Ford, Charles 384
Ford, David; et al. 12874
Formanek, Edward; et al. 5324
Gagola, Stephen M., Jr. 12875
Gruenberg, K. W.; et al. 12876
Gustafson, William H. 12877
Jucys, A.-A. A. 7597
Kervaire, Michel 5325
Lawrence, John; et al. 5324
Loday, Jean-Louis (*867)
Mollov, Todor Ž. 12878
Peterson, Gary L. 385
Polcino Milies, Francisco César 386,2773
Rehm, Hans Peter (2619)
Roggenkamp, K. W.; et al. 12876
Singer, Michael; et al. 12874
Spiegel, Eugene 2774
Tan, Keng Teh 5326
Yamada, Toshihiko (5185)
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 384
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 5326

20C10 *Integral representations*

Maiorana, James (12866)

20C15 *Ordinary representations and characters*

Backhouse, Nigel B.; et al. 2775
Faddeev, D. K. 5327
Fields, K. L. 7598,12879
Gard, Patricia; et al. 2775
Herzog, Marcel 387
Howlett, R. B. 388
Kawanaka, Noriaki 2776
Peacock, R. M. 12880
Reyes, Araceli 389
Sibley, David A. 390
Springer, T. A. 10385
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 10385

20C20 *Modular representations and characters*

Alperin, J. L. 10386
Benard, Mark 391
Brauer, Richard 5328,7599
Chevalley, Claude 10387
Peacock, R. M. 2777
Solomon, Ronald 10388
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7599
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 10387

20C25 *Projective representations and multipliers*

Karpilovskiĭ, G. I. 10389

20C30 *Representations of symmetric groups and other special groups*

Brender, M. 12881
Celik, Özdem; et al. 7600
Doković, Dragomir Ž.; et al. 7601
Farahat, H. K.; et al. 392
James, G. D. 5329
Kerber, Adalbert; et al. 7600
Malzan, Jerry; et al. 7601
Müller, Wolfgang; et al. 392
Pahlings, Herbert; et al. 7600
Peel, M. H.; et al. 392
Read, E. W. 393
Wagner, Ascher 7602

20C35 *Applications to physics*

Berenson, Rhoda; et al. 12882
Birman, Joseph L.; et al. 12882
Car, R.; et al. 2778a-b
Ciucci, G.; et al. 2778a-b
Itzkan, Irving; et al. 12882
Quartapelle, L.; et al. 2778a-b

20C99 *None of the above, but in this section*

Becker, Heinz E. 12883
Roth, Richard L. 7603
Taketa, Kiyosi 2779
Wehrfritz, B. A. F. 2780

20Dxx Abstract finite groups

20D05 *Simple groups [See also 20G40.]*

Alex, Leo J. (12634)
Aschbacher, Michael 2781,10390
Aschbacher, Michael; et al. 10391
Assa, Steven Brent 2782
Beisiegel, Bert 12884
Conway, J. H. 7604
Donley, Joyce L. 7605
Foote, Richard 10392a-b
Gallian, Joseph A. 2783
Gorenstein, Daniel 12885
Griess, Robert L., Jr. (12865)
Harris, Morton E.; et al. 7608
Ho, C. Y. 5330,10393
Klinger, Kenneth 2784
Magliveras, Spyros S. 394
Mason, David R. 2785
Mason, Geoffrey 7606a-c
Park, Seung Ahn (5365)
Podufalov, N. D. 7607
Seitz, Gary M.; et al. 10391
Sentoh, Keiko 5331
Smith, Margaret S. 5332
Solomon, Ronald 10394
Solomon, Ronald; et al. 7608
Stingl, Volker 2786
Stölting, Rolf (12871)
Striko, Jelisaveta Kovač 10395
Stroth, G. 2787,5333,5334
Wong, W. J. 12886
Yamaki, Hiroyoshi 10396
Yu, Ying King (7688)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7604,12885
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 394,7608

20D10 *Solvable groups*

Asaad, Mohamed 7609a-b
Baskaran, S. 5335
Berger, Thomas R. 10397
Blessenohl, Dieter; et al. 2788,10398
Brewster, Benjamin; et al. 10398
Chen, Miao Sheng 5336
Feldman, Arnold D. 10399
Glauberman, G. 395
Harlamova, V. I. 10400
Hawkes, Trevor 2789
Laue, Hartmut; et al. 2788
Martínez Verduch, José Ramón 2790,10401
Šatilo, E. I. 12887
Scarselli, Alessandro 12888
Schaller, Kay-Uwe 7610
Šmigirev, E. F. 2791
van der Waall, Robert W. 2792,12889
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 10399

20D15 *Nilpotent groups, p-groups*

Gallian, Joseph A. 5337
Mann, Avinoam 7611,12890
Rae, Andrew 2793
Varea, V. 12891

20D20 *Sylow subgroups, π-groups*

Aleev, R. Ž. 2794
Finkelstein, Larry 2795
Hall, J. I. 5338
Konjuh, V. S.; et al. 12893
Smith, Stephen D. 5339
Wong, S. K. 12892
Yonaha, Masanobu 2796
Zalesskiĭ, A. E.; et al. 12893
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 5339

20D25 *Special subgroups [Frattini, Fitting, etc.]*

Bellani Tamburini, Maria Chiara; et al. 5340
Coates, Martin; et al. 7612
Čunihin, S. A. 2797
Di Martino, Lino; et al. 5340
Dwan, Michael; et al. 7612
Glauberman, George 5341
Janko, Zvonimir 7613
Laue, R. 396
Maĭer, V. R. 10402
Novickiĭ, A. I. 10403
Ogarkov, E. T.; et al. 5342
Rose, John S.; et al. 7612
Solomon, Ronald 10404
Vedernikov, V. A.; et al. 5342
van der Waall, Robert W. 7614
Williams, J. S. 7615
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 7613

20D30 *Series and lattices of subgroups*

Harlamova, V. I. 10405
Reŝko, K. A. 5343
Silcock, Howard L. 7616

20D35 *Subnormal subgroups*

Asaad, Mohamed 5344
Bauman, Steven; et al. 397
Ebert, Gary; et al. 397
Tani Corsi, Gabriella 7617

20D40 *Products of subgroups*

Carr, John G. 5345
Finkelstein, H. 12894
Kramer, Otto-Uwe 10406
Maier, Rudolf 5346
Schick, Marlene 10407

20D45 *Automorphisms*

Borovik, A. V.; et al. 2798
Finkelstein, H. 7618
Huhro, E. I.; et al. 2798
Mutio, N. J. 5347
Rose, John S. 7619
Schmid, Peter 7620

20D99 *None of the above, but in this section*

Beyl, F. Rudolf 10408
Bioch, J. C. 12895
Kano, Mikio; et al. (2840)
Krapež, A. 7621
Laffey, Thomas J. 2799
Lausch, Hans; et al. 2800
Nagao, Hirosi; et al. (2840)
Nöbauer, Wilfried 2800
Nobusawa, Nobuo; et al. (2840)
Salihov, G. N.; et al. 2801
Šariphodžaeva, F.; et al. 2801
Sidki, Said 2802,2803
Tappe, Jürgen 5348

20Exx Infinite groups

20E05 *Free nonabelian groups*

Bachmuth, S.; et al. 398
Hoare, A. H. M. 10409
Mochizuki, H.; et al. 398

20E10 *Varieties of groups*

Bachmuth, S.; et al. 399
Bazaev, Ju. V. 7622
Bryce, R. A. 12896
Giri, R. D. 10410
Groves, J. R. J. 400
Kljačko, A. A. 7623
Krop, L. E.; et al. 12897
Mochizuki, H. Y.; et al. 399
Plotkin, B. I. 2804
Plotkin, B. I.; et al. 12897
Šahova, N. G. 401
Suščanskiĭ, V. I. 12898
Vovsi, S. M. 12899
Walkup, D. W.; et al. 399
Woeppel, James J. 12900
Zappa, Guido 7624
Certain questions of group theory (Proc. Algebra Sem., No. 2, Riga, 1969/1970) 2804
Ordered sets and lattices, No. 1 7623
Seminar "Algebraic systems", No. 3 7622
Word problems: decision problems and the Burnside problem in group theory 399

20E15 *Chains of subgroups (solvable groups, nilpotent groups, etc.)*

Baumslag, Gilbert; et al. 10411
Bazaev, Ju. V.; et al. 7625
Bieri, Robert; et al. 10411
Emaldi, Maurizio 12902
Formanek, Edward 7626
Gaglione, Anthony M.; et al. 404
Garaščuk, M. S. 2805
Gorčakov, Ju. M.; et al. 7625
Koppe, Hans 12903
Lemaire, Claude 5349
Lennox, John C. 10412
Lennox, John C.; et al. 2806
Neespapa, T. A. 402
Newell, Martin L. 10413
Novak, G. A. 7627
Robinson, Derek J. S. 2807
Stebe, Peter F. 403
Tolimieri, Richard (*2878)
Waldinger, Hermann V.; et al. 404
Wiegold, James; et al. 2806
Polycyclic groups *12901
Seminar "Algebraic systems", No. 3 7625
Three lectures on polycyclic groups *12901

20E20 *Special subgroups other than commutator types*

Pickel, P. F. 5350
Zaĭcev, D. I. 405

20E25 *Local properties, residual properties*

Gol'denberg, M. M. 12904
Gupta, N. D.; et al. 10414
Hartley, B. 2808,7628,7629
Kegel, O. H. 2809
Kemhadze, K. Š. 10415
Liman, F. M. 10416
Neumann, Peter M. 406
Pavljuk, I. I.; et al. 10417
Šafiro, A. A.; et al. 10417
Samsonadze, G. T. 407
Schenkman, Eugene 12905
Segal, Daniel 2811,7630
Šunkov, V. P.; et al. 10417
Wehrfritz, B. A. F. 10418
Wehrfritz, B. A. F.; et al. 10414
Collection: Kupradze, V. D. 407
Symposia Mathematica, Vol. XVII 2809,7629,12905

20E30 *Free products, generalized properties*

Baumslag, Benjamin; et al. 10419
Casson, A. J. (11338)
Chipman, J. C. 5351
Chiswell, I. M. 7631
Cossey, John; et al. 5352
Levin, Frank; et al. 10419
Sacerdote, George S. (4958)
Smythe, N.; et al. 5352
Stallings, John (*3705)
Algebraic K-theory, II: "Classical" algebraic K-theory and connections with arithmetic (11338)
Knots, groups, and 3-manifolds (Papers dedicated to the memory of R. H. Fox) 5352

20E35 *Representation in associative rings, Lie rings, combinatorial structures, etc.*

Bovdi, A. A. *408

20E40 *Fundamental groups, etc.* [*See also* 55A05, 57Exx.]

Scheuneman, John (612)
Stallings, John R. (13921)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13921)

20E99 *None of the above, but in this section*

Greenleaf, Frederick P.; et al. 12993
Macedońska-Nosalska, O. N. 7632
Piccard, Sophie 2812
Sozutov, A. I.; et al. 10420
Spoletini Cherubini, Alessandra 5353
Šunkov, V. P.; et al. 10420
Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 154 (Neuenburg, 1974) 2812

20Fxx General groups, finite or infinite

20F05 *Generators and relations*

Anshel, Michael; et al. 7633
Bass, Hyman 7634
Baumslag, G.; et al. 10421
Baumslag, Gilbert 12906
Brenner, J. L.; et al. 409
Brunner, A. M. 7635
Campbell, C. M.; et al. 10422
Davis, Constance *410
Fadeeva, N. P. 7636
Gildenhuys, D. 411
Havas, George 12907
Kalia, R. N.; et al. 7637
Karrass, Abraham; et al. *10423
Magnus, Wilhelm; et al. *10423
McLain, D. H. 12908
Neumann, B. H. (7590)
Quintana, Ricardo B., Jr. 12909
Robertson, E. F.; et al. 10422
Rosenberger, Gerhard; et al. 7637
Rothaus, O. S. 5354
Solitar, Donald; et al. *10423
Stebe, Peter; et al. 7633
Strebel, R.; et al. 10421
Tretkoff, Marvin 5355
Wiegold, James; et al. 409
Bibliography: Groups with two generators *410
Conference on Group Theory (Univ. Wisconsin-Parkside, Kenosha, Wis., 1972) 12909

20F10 *Word problems*

Anisimov, A. V.; et al. 10425
Anshel, Michael (10446)
Bachmuth, S.; et al. (399)
Baur, Walter 12910
Gorjaga, A. V.; et al. 2813
Hurwitz, R. Daniel 414
Ivanov, S. G. 7638,7639
Kirkinskiĭ, A. S. 2813
Klassen, V. P. 12911
Larsen, Leif 12912
Mochizuki, H. Y.; et al. (399)
Sacerdote, George S. 2814,2815
Schupp, Paul E. 415
Seifert, Franz D.; et al. 10425
Timošenko, E. I. 10426
Valiev, M. K. 413
Walkup, D. W.; et al. (399)
Questions in the theory of groups and semigroups 12911
Word problems: decision problems and the Burnside problem in group theory (399),412

20F15 *Structure theorems*

Scimemi, Benedetto 5356
Sergeev, M. I. 2816
Spellman, Dennis 2817

20F20 *Limits, profinite groups*

Gildenhuys, D. 7640
Tan, Eng Tjioe 7641
Watanabe, Tetsuro 416

20F25 *Extensions, wreath products, other compositions*

Houghton, C. H. 12913
Lakatos, Piroska; et al. 10427
Levičs, E. 12914
Nenov, Nedjalko D. 12915
Read, E. W. 2818
Suščanskiĭ, V.; et al. 10427
Wiegold, James 5357

20F30 *Subgroup lattices, maximal subgroups, subnormal subgroups, etc.*

Hartley, B.; et al. 2819
Peng, T. A.; et al. 2819

20F35 *Commutator subgroups and their generalizations*

Liebeck, Hans 5358
Spiegel, Eugene 417

20F40 *Associated Lie structures*

Tolimieri, Richard (*2878)

20F45 *Engel conditions*

Quintana, R. B., Jr.; et al. 2820
Wright, C. R. B.; et al. 2820

20F50 *Periodic groups*

Hickin, Ken 7642
Kudraćenko, L. A. 7643
Širvanjan, V. L. 2821
Tomkinson, M. J. 5359
Groups with subgroups having prescribed properties 7643

20F55 *Automorphisms*

Cheng, Ying 7644
Gluhov, M. M.; et al. 2822
Hartley, Brian 10428
Hartley, B.; et al. 5360
Heineken, Hermann 7645
Larin, S. V.; et al. 2822
Parker, J. R.; et al. 5360
Tessun, Franz 2823
Wehrfritz, B. A. F. 418
Symposia Mathematica, Vol. XVII 418,7645

20F99 *None of the above, but in this section*

Bushy, Robert W.; et al. 2824
Kennedy, Robert E.; et al. 2824
Szilágyi, Miklós 12916

20Gxx Linear algebraic groups (classical groups) (See also 10C30, 14—XX; for analytic methods on p-adic groups and adèle groups, see 22E55.)

20G05 *Representation theory [For infinite dimensional representations, see 22E50.]*

Curtis, Charles W.; et al. 10429
Demazure, Michel (2670)
Dixit, V. N.; et al. 5361
Faddeev, D. K. 10430
Judd, B. R.; et al. (1924)
Kantor, William M.; et al. 10429
Kesava Menon, P. (2680)
Lusztig, G. 7646,12917
Miller, W., Jr.; et al. (1924)
Patera, J.; et al. (1924)
Richardson, R. W. 7647
Seitz, Gary M.; et al. 10429
Shintani, Takuro 2825
Sinha, I.; et al. 5361
Winternitz, P.; et al. (1924)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 7646

20G10 *Cohomology theory*

Shapiro, Jack 419

20G15 *Linear algebraic groups over arbitrary fields*

Acharya, A. N. 5362
Bala, P.; et al. 5363a-b
Carter, R. W.; et al. 5363a-b
Feit, Walter 420
Herzog, Marcel; et al. 12918
Kac, V.; et al. 5364,7489
Parshall, Brian 2826
Popov, Vladimir L.; et al. (7489)
Praeger, Cheryl E.; et al. 12918
Roy, G.; et al. 12919
Serežkin, V. N.; et al. 421
Steinberg, Robert 2827
Veĭsfeĭler, B. Ju.; et al. 5364
Vinberg, Ernest B.; et al. (7489)
Voskresenskiĭ, V. E. (10287)
Vranceanu, G.; et al. 12919
Zalesskiĭ, A. E.; et al. 421
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City Utah, 1975) 420
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (10287)
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-436) 2827

20G20 *Linear algebraic groups over the reals, the complexes, the quaternions*

Leonard, Henry S., Jr. 2828
Procesi, Claudio 7511,7512
Suhanov, A. A. 2829
Proceedings of the Conference on Finite Groups (Univ. Utah, Park City, Utah, 1975) 2828

20G25 *Linear algebraic groups over local fields and their integers*

Behr, Helmut 10431
Bruhat, François 12920
Chang, Chan Nan (12648)
Hurrelbrink, Jürgen; et al. 10432
Platonov, V. P. 10433
Rehmann, Ulf; et al. 10432
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 12920

20G30 *Linear algebraic groups over global fields and their integers*

Asai, Teruaki 10434
Hurrelbrink, Jürgen 12921
Hurrelbrink, Jürgen; et al. 7648
Rehmann, Ulf; et al. 7648
Stuhler, Ulrich 7649
Tits, Jacques (12924)
Voskresenskiĭ, V. E. 12922
Studies in number theory, No. 4 12922

20G35 *Linear algebraic groups over adèles and other rings and schemes*

Chukwumah, G. C.; et al. 7650
Geller, Susan C. 12923
Ho, C. Y. (10147)
Ndili, F. N.; et al. 7650
Norman, C. W. 7651
Noskov, G. A. (12650)

20G40 *Linear algebraic groups over finite fields*

Callan, David 7652
Dye, R. H. 2830
Ho, Chat Yin (10393)
Lusztig, G. 7653
Park, Seung Ahn 5365
Wilson, Robert Lee 7654
Zalesskiĭ, A. E. 10435

20Hxx Other groups of matrices

20H05 *Unimodular groups, congruence subgroups*

van Asch, A. G. (237)
Chang, Chan Nan; et al. (12649)
Cheng, Chao Kun (12649)
Hardy, Darel; et al. 10436
Lee, Ronnie; et al. (10485)
Patterson, S. J. (10151)
Szczarba, R. H.; et al. (10485)
Tits, Jacques 12924
Wisner, Robert J.; et al. 10436

20H10 *Fuchsian groups and their generalizations [See also 30A58, 32Nxx.]*

Behrens, Ernst August 435
Riley, Robert (542)
Zarrow, Robert 2831
Zieschang, Heiner 7655

20H15 *Other geometric groups, including crystallographic groups [See also 50-XX.]*

A'Campo, Norbert 12925
Appalanarasimham, V.; et al. (12072)
Celik, Özdem; et al. (7600)
Cohen, Arjeh M. 10437
Delone, B. N.; et al. (1068),12926
Galiulin, R. V.; et al. (1068),12926
Gilpin, Michael (3572)
Kerber, Adalbert; et al. (7600)
Krishnamurty, T. S. G.; et al. (12072)
May, Coy L. (13071)
Moran, Gadi 422,423
Nardov, A. V.; et al. 12926
Pahlings, Herbert; et al. (7600)
Štogrin, M. I.; et al. (1068)
Šustov, A. V.; et al. 12926
Current problems in mathematics, Vol. 2 (1068)

20H20 *Other matrix groups over fields*

Ho, C. Y. 2832
Shapiro, Louis 2833
Suprunenko, D. A. 10438
Wehrfritz, B. A. F. (10418)

20H25 *Other matrix groups over rings*

Kirchheimer, Franz (5123)

20Jxx Connections with homological algebra and category theory

20J05 *Homological methods in group theory*

Brown, Kenneth S. (7700)
Cossey, John; et al. 12927
Curran, P. M. 2834
Eckmann, Beno; et al. 10439
Evens, Leonard 5366
Furtado-Coelho, J. 2835
Gildenhuys, D. (411)
Gruenberg, K. W. 424
Gruenberg, K. W.; et al. 12927
Gut, Arthur 2836
Hilton, Peter; et al. 10439
Huỳnh Mùi 10440
Kovács, L. G.; et al. 12927
Matchett, Andrew (12818)
Pandya, Gautam N. 7656
Stammbach, Urs; et al. 10439
Vermani, L. R. 7657
Symposia Mathematica, Vol. XVII 424

20J10 *Groups arising as cohomology groups*

Suzuki, Shôsuke 2837

20Kxx Abelian groups

20K05 *Finitely generated groups*

Müller, Wilfried (10109)

20K10 *Torsion groups*

Chen, Y. S. 7658
Koyama, Toshiko 2838
Richman, F. 2839
Shelah, S. 425
Model theory and algebra 425

20K15 *Torsion free groups, finite rank*

Bican, Ladislav 5367,5368
Grinspon, S. Ja. 426
Pufter, G. 12928
Mathematical questions, No. 3 426

20K20 *Torsion free groups, infinite rank*

Fuchs, L.; et al. 10441
Gräbe, P.; et al. 10441
Webb, Cary 427

20K25 *Direct sums, direct products, etc.*

Deveney, James K. (7442)
Megibben, Charles; et al. 5369
Toubassi, Elias; et al. 5369

20K30 *Automorphisms, homomorphisms, endomorphisms*

Arnold, D. M.; et al. 5370
Byrd, Richard D.; et al. 12929
Corner, A. L. S. 10442
Lady, E. L.; et al. 5370
Lloyd, Justin T.; et al. 12929
May, Warren; et al. 10443
Pedersen, Franklin D.; et al. 12929
Stepp, James W.; et al. 12929
Toubassi, Elias; et al. 10443
Wickless, W. J. 428

20K35 *Extensions*

Beyl, F. R.; et al. 7659
Hanna, A.; et al. 7659
Sinha, I. 5371

20K40 *Homological and categorical methods* [*See also* 18H10.]

Manovcev, A. A. 7660
Warfield, R. B., Jr. 10444

20K45 *Topological methods*

Menegazzo, Federico; et al. 429
Salce, Luigi; et al. 429
Surmanidze, O. È. 5372

20K99 *None of the above, but in this section*

Chalkley, Roger (7500)
Nebres, B. F. (2455)
Szendrei, Agnes (10110)
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) (2455)

20Lxx Groupoids (small categories in which all morphisms are isomorphisms)

20L05 *General theory*

Aye, Sein; et al. 5373
Havel, Václav 430
Klouda, Josef 12930
Milić, Svetozar 10445
Sin-Min, Lee; et al. 5373
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) 10445

20L10 *Connections with group theory*

Borůvka, O. *431
(Borůvková, Milada) *431
Brown, Ronald; et al. 7661
Kano, Mikio; et al. 2840
Nagao, Hirosi; et al. 2840
Nobusawa, Nobuo; et al. 2840
Spencer, Christopher B.; et al. 7661

20L15 *Connections with topology*

Brown, Ronald; et al. (459)
Gramellini, M. Letizia; et al. (13892)
Hardy, J. P. L.; et al. (459)
Seda, A. (3725)
Tozzi, Anna; et al. (13892)
Bibliography: Topological groupoids (459)

20L99 *None of the above, but in this section*

Kazim, M. A.; et al. 7662
Naseeruddin, Mohd.; et al. 7662

20Mxx Semigroups

(Ljapin, E. S.) *12931
Algebra *12931
Modern algebra, No. 3 *12931

20M05 *Free semigroups, generators and relations, word problem*

Anshel, Michael 10446
Benois, Michèle 10447
Knopfmacher, John (*7404)
Makanin, G. S. 7663
Mel'nik, I. I. 433
Shyr, H. J. 434
Spehner, Jean-Claude 7664
Tamari, Dov 7665
T"rkalanov, K. D. 7666
Viennot, Gérard 7667
Modern algebra, No. 1 432
Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71) Fasc. 1 7665,7667,10447
Studies in algebra, No. 2 433

20M10 *Structure theory, ideals, idempotents, etc.*

Allard, Jean-Claude 2841a-c
Bouvier, Alain 436,2842
Bouvier, Alain; et al. 7668-7670
Ceresa-Genet, Giuseppe (12793)
Chatterjea, S. K. 2843
Clifford, Alfred H. 7671
Delorme, M. 2844,5374,5375
Faisant, Alain; et al. 7668-7670
Feigenbaum, Ruth 7672
Fountain, John 10448
Gluskin, L. M. 12932
Grillet, Pierre Antoine 437,10450
Hardy, Darel W.; et al. 5376
Hartfiel, D. J.; et al. 7673
Houghton, C. H. 2845
Imaoka, Teruo 10451
Isbell, John 10449
Krgović, Dragica N. et al. *2846
Lajos, Sándor 10452
Lajos, Sándor; et al. *2846
Lal, Harbans 7674
Lausch, H. 10453
Lenzi, Domenico; et al. (7357)
Letizia, Angiola; et al. (7357)
Madhaven, S. 12933
Mannepalli, V. L. 10454a-b
Mannepalli, V. L.; et al. 10454c
Maxson, C. J.; et al. 7673
Merlier, Thérèse 10455
Mills, Janet E. 10456
Naseeruddin, Mohd. 7675
Nordahl, Thomas 2847
O'Carroll, L. 12934
Petrich, Mario 12935
Plemmons, R. J.; et al. 7673
Preston, G. B. 2848,12936
Putcha, Mohan S. 5377
Reilly, N. R. 7676
Satyanarayana, M. 2851a-b
Satyanarayana, M.; et al. 10454c
Šaĭn, B. M. 2849,2850
Schwarz, Štefan 2852
Szász, G. 438
Tamura, Takayuki 2853
Thierrin, G. 7677
Tirasupa, Yupaporn; et al. 5376
Trotter, Peter G. 439
Venkatesan, P. S. 440
Weinert, H. J. 7678
Zalcstein, Yechezkel 10457
Zitarelli, David E. 5378
Mini-Conference on Semigroup Theory (József Attila Univ., Szeged, 1972) 2853
Séminaire P. Dubreil (25e année: 1971/72), Fasc. 2 435,7671
Séminaire P. Dubreil, F. Aribaud et M.-P. Malliavin (28e année: 1974/75) 10455
Séminaire P. Dubreil, M.L. Dubreil-Jacotin, L. Lesieur et C. Pisot (24e année: 1970/71), Fasc. 1 2842,12935
Séminaire P. Lefebvre (année 1968/1969) 436
Séminaire P. Lefebvre (année 1969/1970) 2844,7668-7670
Séminaire P. Lefebvre (année 1970/1971), Tome I 5374,5375
Séminaire P. Lefebvre (année 1970/1971), Tome II 2841a-c
Proceedings of a Symposium on Inverse Semigroups and their Generalisations (Northern Illinois Univ., De Kalb, Ill., 1973) 2848

20M15 *Mappings of semigroups*

Byrd, Richard D.; et al. (12929)
Lloyd, Justin T.; et al. (12929)
McAlister, D. B. 12937
Pedersen, Franklin D.; et al. (12929)
Stepp, James W.; et al. (12929)

20M20 *Semigroups of transformations, etc.* [*See also* 47D05.]

Magill, K. D., Jr. 10458
McAlister, D. B. 12938
Todorov, Kalčo Ž. 12939,12940

20M25 *Semigroup rings, multiplicative semigroups of rings*

Aĭzenštat, A. Ja. 432
Arnold, Jimmy T.; et al. 2854
Clark, W. Edwin (2764)
Engel, Alejandro B. 7679
Gilmer, Robert; et al. 2854
Ligh, Steve 10459

20M30 *Representation of semigroups*

Bredihin, B. A. (2562)
Clifford, A. H. 2855
Faddeev, D. K. (10430)
McAllister, D. B. 10460

20M35 *Semigroups in automata theory, linguistics, etc.* [*See also* 02F10.]

(Arbib, Michael A.) *12941
(Buslenko, N. P.) *12941
Deussen, P. (4191)
Duske, J. 10461
Khang, N. Q.; et al. 441
Lausmaa, T. 2856
Lisovik, L. P. (9160)
Masunaga, Yoshifumi; et al. (9893)
Noguchi, Shoichi; et al. (9893)
Oizumi, Juro; et al. (9893)
(Osetinskiĭ, N. I.) *12941
Peák, I.; et al. 441
Perrot, J.-F. 10462
Simovici, Dan A. (14891)
Algebraic theory of machines, languages and semigroups *12941
Automata theory *12941
Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschungsinst., Oberwolfach, 1969) (4191)
Languages *12941
Mathematical foundations of computer science (Proc. Sympos. and Summer School, Štrbské Pleso, 1973) 441
Semigroups *12941
Symposia Mathematica, Vol. XV 10462

20M99 *None of the above, but in this section*

Bednarek, A. R.; et al. 12942
Dhombres, Jean 7680
Kleitman, Daniel J.; et al. (2483)
Magill, K. D., Jr.; et al. 12942
Rothschild, Bruce L.; et al. (2483)
Skula, Ladislav 2857
Spencer, Joel H.; et al. (2483)

20Nxx Other generalizations of groups

Équations fonctionnelles (*3197)
Functional equations (*3197)
Quasigroups (*3197)
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) (*3197)

20N05 *Loops, quasigroups* [*See also* 05Bxx.]

Belousov, Valentin D.; et al. 2858,10463,12943
Čeban, A. M. 10464
Coda, A. 12944
Evans, Trevor (2498)
Golovko, I. A. 10465
Hauptfleisch, G. J. 12945
Ježek, J.; et al. 10466
Kannappan, Pl. 2859
Kepka, T.; et al. 10466
Kikkawa, Michihiko 442
Kručkov, N. I. 444
Lindner, Charles C. 443
Livšic, E. S.; et al. 10463
Movsisjan, Ju. M.; et al. 12943
Quackenbush, Robert W. 12946
Robinson, D. A. 2860
Sharma, B. L. 10467,12947
Singh, P.; et al. 7681
Smith, J. D. H. 7682
Stojaković, Zoran; et al. 2858
Straley, Tina H.; et al. 443
Strambach, K. 2861
Suvorov, N. M.; et al. 444
Yadav, N. S.; et al. 7681
Foundations of geometry (Proc. Conf., Univ. Toronto, Toronto, Ont., 1974) 2861

20N10 *Ternary systems (heaps, semiheaps, heapoids, etc.)*

Tannenbaum, Peter 10468

20N15 *n-ary systems*

Corsini, Piergiulio 10469
Rusakov, S. A. 7683
Topenčarov, Vladimir V. (373)

20N99 *None of the above, but in this section*

Growney, J. A. S. 7684,7685
Harinath, K. S.; et al. 445
Kamalamma, K. N.; et al. 445
Kannappan, Pl. 7686
Krasner, Marc; et al. 12949
Lecomte, Pierre; et al. 12949
Lecomte, Pierre-Claude 12948
Rossi, Fabio 12950
Collection: Bhatnagar, P. L. 7686

22—XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Exx, 58—XX. For abstract harmonic analysis, see 43—XX.}

(Antonovskiĭ, M. Ja.) *446
(Hewitt, Edwin) *446
*447
Kirillov, A. A. *447
(Kirillov, A. A.) *446
(Mal'cev, A. A.) *446
Ross, Kenneth A.; et al. *446

22-01 *Elementary exposition (collegiate level)*

Carmeli, M.; et al. *7687
Llorente, Pascual *10470,*10471
Malin, S.; et al. *7687

22Axx Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 46L05.}

22A05 *Structure of general topological groups*

Bel'nov, V. K. 5379
Brown, Ronald; et al. (7661)
Hardy, J. P. L.; et al. (12951),12952
Joiner, Charles 448
Katz, Elyahu 12953
Mironov, A. V. (202)
Morgan, Christopher L. (10277)
Morris, Sidney A.; et al. (12951),12952
Prodanov, Ivan 449
Rečkoski, N. 450
Ruppert, Wolfgang 12954
Spencer, Christopher B.; et al. (7661)
Thompson, H. B.; et al. 12952
Yu, Ying King 7688

22A10 *Analysis on general topological groups*

Fedotov, V. P. (8699)
Selected problems of mathematics and physics (8699)

22A15 *Structure of topological semigroups*

Chow, H. L. 451
Crawley, Winston 5380
Hildebrant, John A. 2862
Hofmann, Karl Heinrich 12955
Hofmann, Karl Heinrich; et al. 452
Horne, J. G. 453
Hu, Hung Tzaw; et al. 454
Lau, A. Y. W. 12956
Marxen, Donald 455
Mislove, Michael; et al. 452
Mostert, Paul S. 10472
Owen, W. S. 456
Selden, Annie Alexander 2863
Shum, Kar Ping 12957
Sigmon, Kermit 454
Stralka, Albert; et al. 452
Yeager, D. P. 457,2864
Yuan, John 10473
Collection: Clifford, Alfred Hoblitzelle 453

22A20 *Analysis on topological semigroups*

Berg, Christian; et al. (8165)
Berglund, John F. (863)
Berglund, John F.; et al. (10982)
Christensen, Jens Peter Reus; et al. (8165)
Grant, Douglass L. 458
Khaleelulla, S. M. (3352)
Milnes, Paul 7689
Milnes, Paul; et al. (10982)
Ressel, Paul; et al. (8165)

22A25 *Representations of general topological groups and semigroups*

Holdgrün, Horst S. (5748)

22A99 *None of the above, but in this section*

Brown, Ronald; et al. 459
Hardy, J. P. L.; et al. 459
Jaiswal, Anuradha; et al. (6096)
Singh, Bijendra; et al. (6096)
Strambach, Karl (1215,2861)
Bibliography: Topological groupoids 459
Foundations of geometry (Proc. Conf., Univ. Toronto, Toronto, Ont., 1974) (2861)

22Bxx Locally compact abelian groups (LCA groups)

22B05 *General properties and structure of LCA groups*

Corwin, Lawrence 2865
Olubummo, A.; et al. 10474
Rajagopalan, M.; et al. 5381,10474
Subrahmanian, H.; et al. 5381
Surmanidze, O. E. (5372)

22B99 *None of the above, but in this section*

Sharpe, Kevin J. 10475

22C05 Compact groups

Dubins, Lester E. (13029)
Gommers, Toon (3293)
Mel'nikov, O. V. 12958

22Dxx Locally compact groups and their algebras

Mosak, Richard D. (*3406)

22D05 *General properties and structure of locally compact groups*

Corwin, Lawrence (468)
Huang, Ter Jenq 460
Jenkins, J. W. 2866
Kallman, Robert R. 5382
Lam, Ling Fai 461
Moore, Calvin C. 2867,2868
Moskalenko, Z. I. 462
Plaumann, Peter 12959
Poguntke, Detlev 12960,12961
Polec'kiĭ, V. M. 2869
Sit, Kwan-Yuk Claire 12962
Yang, C. T. (13948)
Zerling, David 463
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) (13948)

22D10 *Unitary representations of locally compact groups*

Abbati, Maria C.; et al. 2870
Bagchi, S. C.; et al. 7690
Borel, Armand *2871
Christensen, Jens Peter Reus (495)
Cirelli, Renzo; et al. 2870
Derighetti, Antoine 10476
Dumons, Bertrand 464
Gallone, Franco; et al. 2870
Guichardet, Alain 2872,12963
de la Harpe, Pierre; et al. 12964
Herer, Wojchiech; et al. (495)
Ismagilov, R. S.; et al. (3424)
Karoubi, Max; et al. 12964
Lipsman, Ronald L. 465
Mathew, Joseph; et al. 7690
Moore, Calvin C. (2867,2868)
Nadkarni, M. G.; et al. 7690
Naĭmark, M. A.; et al. (3424)
Rieffel, Marc A. 466
Sund, Terje 10477
Szmidt, J. 5383
Taylor, Keith F. 12965
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard-Lyon I, Lyon, 1975) 12964
Mathematical analysis, 1968 (3424)

22D12 *Other representations of locally compact groups*

Cattaneo, U. 10478
Kucment, P. A. 467
Litvinov, G. L. 10479
Löwen, Rainer 7691
Naĭmark, M. A. 7692
de Vries, J. *3671

22D15 *Group algebras of locally compact groups*

Edwards, C. M.; et al. 10480
Moore, Calvin C.; et al. 7693
Rosenberg, Jonathan; et al. 7693
Stacey, P. J.; et al. 10480
Walter, Martin E. 12966
Wassermann, Simon (13582)

22D25 *C^*-algebras and W^*-algebras arising from group representations*

Kallman, Robert R. 5384,5385
Leinert, Michael 7694
Rieffel, Marc A. (4415),7695
Taylor, Keith F. (12965)

22D30 *Induced representations*

Aarnes, Johan F. (5392)
Corwin, Lawrence 468
Corwin, L.; et al. 12967
Fell, J. M. G. (8315)
Greenleaf, F. P.; et al. 12967
Mackey, George W. 12968
Moore, Calvin C. (2867,2868)
Pichaud, Joëlle 2873
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8315)

22D35 *Duality theorems*

Akemann, Charles A. 12969
Kaniuth, Eberhard 5386
Strätilä, Serban; et al. (3431)
Sund, Terje (10477)
Venkataraman, Rangachari 7696
Voiculescu, Dan; et al. (3431)
Zsidó, László; et al. (3431)
Functional analysis and its applications (Internat. Conf., Madras, 1973) 12969

22D45 *Automorphism groups of locally compact groups*

Lee, Dong Hoon 2874
Levin, Martin D. 10481
Mel'nikov, O. V. 7697,(12958)
Plaumann, Peter (12959)
Wigner, David 2875

22D99 *None of the above, but in this section*

Insel, Arnold J. 2876
Niederreiter, H.; et al. (*7415)
Rindler, Harald (5155)
Wilson, Edward N. (13951)

22Exx Lie groups (For the topology of Lie groups and homogeneous spaces, see 57Exx, 57Fxx; for the analysis thereof, see 43A80, 43A85, 43A90.)

Boothby, William M. (*13956)

22E05 *Local Lie groups [See also 34-XX, 35-XX, 58H05.]*

Hofmann, Karl H. (5397a-d)
Lorente, Miguel 7698
Magri, F. (13997)
Spesivõhh, V. 5387
Séminaire P. Dubreil (27e année: 1973/74), Fasc. 1 (5397a-d)

22E10 *General properties and structure of complex Lie groups*

Legiša, Peter; et al. 10482
Vidav, Ivan; et al. 10482

22E15 *General properties and structure of real Lie groups*

Gelbaum, Bernard R. 469
Millman, Richard S. (1124)
Milnor, John 12970
Nazarjan, R. O. 5388
Popov, A. M. 12971
Wigner, David (2875)

22E20 *General properties and structure of other Lie groups*

Garland, Howard; et al. 5389
Raghunathan, M. S.; et al. 5389

22E25 *Nilpotent and solvable Lie groups*

Arnal, Didier (10493)
Auslander, Louis; et al. *2877,(11341)
Azencott, Robert; et al. (13951)
Carlton, Eloise 12972
Duflo, Michel 12973
Guivarc'h, Y. 10483
Hano, Jun-ichi (7872)
Johnson, F. E. A.; et al. (11341)
Matsushima, Yozo (7871)
Pukanszky, L. (10502)
Satake, Ichiro (12657)
Scheuneman, John 470
Tolimieri, Richard *2878
Tolimieri, Richard; et al. *2877
Vergne, Michèle (12986)
Zimmer, Robert J. (10570)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10502)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 12973
Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1967-1968 10483
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452 (12986)

22E30 *Analysis on real and complex Lie groups [See also 33A75,43-XX.]*

Gangolli, Ramesh (8172)
Goodman, Roe 5390
Hermann, Robert 7699
Hulanicki, A. (6298)
Johnson, Kenneth D. 12974
Nielsen, Børge P. D.; et al. (11414)
Rauch, Jeffrey; et al. 12975
Rouvière, François (13473)
Schempp, Walter (11406)
Shimizu, Yoshiyuki (868)
Stetkaer, Henrik; et al. (11414)
Strichartz, Robert S. (8155)
Weiss, Norman J. (8156)
Wigner, David; et al. 12975
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) 7699,(8172)

22E35 *Analysis on p-adic Lie groups [See also 12A85.]*

Gvišiani, A. D. (12992)

22E40 *Discrete subgroups of Lie groups [See also 32Nxx.]*

Auslander, L.; et al. (11341)
Baily, W. L. (7377)
Brown, Kenneth S. 7700
Chen, Su Shing (8527)
Dani, S. G. (7746)
Furstenberg, Harry 10484
Garland, Howard 471
Harder, G. (12655),12976,12977
Johnson, F. E. A.; et al. (11341)
Lee, Ronnie; et al. 10485
Margulis, G. A. 10486
Millson, John J. 10488
Milovanov, M. V.; et al. 472
Mostow, G. D. 7701,10487,10489,10490
Platonov, V. P.; et al. 472
Raghunathan, M. S. 12978
Sakane, Yusuke (10692)
Sampson, J. H. 473
Serre, Jean-Pierre 10491
Szczarba, R. H.; et al. 10485
Vinberg, È. B. 10492
Wagoner, J. B. (5320)
Wang, Hsien Chung 2879
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 7701,12655,12978
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) 471,10490,10492,12976
Lie groups and their representations (Proc. Summer School of the Bolyai János Math. Soc., Budapest, 1971 10486,10489,12977
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 10491
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) 2879
Symposia Mathematica, Vol. XVI 10487
Symposium on Complex Manifolds (Kyoto, 1974) (7377)

22E43 *Structure and representation of the Lorentz group*

Brennich, R. H. 2880,2881
Browne, Seán 2882
Cantoni, Vittorio (6760)
Červjakov, I. B.; et al. 5391
Fedorov, F. I. 2883
Nelipa, N. F.; et al. 5391
Shimizu, Yoshiyuki (868)
Šijački, Djordje 2882
Wolf, Kurt Bernardo (6720)

22E45 *Representations of Lie and linear algebraic groups: analytic methods [For the purely algebraic theory, see 20G05.]*

Aarnes, Johan F. 5392
Arnal, D. 7702,10493
Arthur, James 474
Atiyah, M. F. (8741)
Benabdallah, Abdel-Ilah 10494
Berezin, F. A. 10495
Bernšteĭn, I. N. 2884
Borel, Armand (*2871)
de Branges, Louis 5393
Cohn, Leslie *10496
Corwin, L.; et al. (12967),12979
Cowling, Michael 12980
Dague, Philippe 12981
Delorme, Patrick 2885
Duflo, Michel (12973)
Écalle, Jean 10497
Ehrenpreis, Leon 7703
Gay, David A. 2886
Gelbart, Stephen S. (13474)
Gel'fand, I. M.; et al. 2884
Gel'fand, S. I.; et al. 2884
Goodman, Roe (5390)
Greenleaf, F. P.; et al. (12967),12979
Helgason, Sigurdur (8169)
Herb, Rebecca A. 10498
(Hewitt, Edwin) (*447)
Ismagilov, R. S. 2887
Kamber, Franz W.; et al. (*1250)
Kirillov, A. A. (*447)
Knapp, A. W.; et al. 7704,10499
Kostant, Bertram 2888,12982
Lipsman, Ronald L. (465)
Litvinov, G. L. (10479)
Mack, Gerhard 10500
Malliavin, Paul; et al. (13152)
Malliavin-Brameret, Marie-Paule (13152)
Martens, Susan 7705
Matsushima, Yozo (7871)
Mickelsson, J.; et al. 10501
Naĭmark, M. A. (7692),12983
Niederle, J.; et al. 10501
Parthasarathy, K. R.; et al. 7706
Penney, Richard; et al. 12979
Plymen, R. J. 7707
Primc, M. 5394
Pukanszky, L. 10502,10503
Repka, Joe 12984
Rossi, H.; et al. 10504
Rozenbljum, A. V.; et al. 5395
Rozenbljum, L. V.; et al. 5395
Schmidt, K. 7706
Simon, Jacques 476
Stein, E. M.; et al. 10499
Takeuchi, Masaru (616)
Tondeur, Philippe; et al. (*1250)
Varadarajan, V. S. 7708,12985
Vergne, M. 10504
Vergne, Michèle 12986
Wallach, N. R. 7704
Wallach, Nolan R. 5396,10505
Wolf, Joseph A. 10506,10507
Želobenko, D. P. 12987
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10502,12982,12983
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) (8741)
Conference on Harmonic Analysis (Univ. Maryland, College Park, Md., 1971) 10499
Non-commutative harmonic analysis (Actes Colloq., Marseille-Luminy, 1974) (13152)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 12973,12985,12987
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452 12986
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) (8169)

22E50 *Representations of Lie and linear algebraic groups over local fields: analytic methods* [*For the purely algebraic theory, see* 20G05.]

Bernšteĭn, I. N.; et al. 12988,12989
Cartier, Pierre 12990
Deligne, Pierre 12991
van Dijk, G. 2890
(van Dijk, G.) *2889
Gvišiani, A. D. 12992
Harish-Chandra *2889
Howe, Roger; et al. 10508
Macdonald, I. G. 7709,10509
Silberger, Allan 10508
Zelevinskiĭ, A. V.; et al. 12988,12989
Actes du Congrès International des Mathématiciens) Nice, 1970), Tome 2 7709
Colloque sur les Fronctions Sphériques et la Théorie des Groupes (Univ. de Nancy, Nancy, 1971) 10509
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 2890
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 12990

22E55 *Representations of Lie and linear algebraic groups over global fields and adèle rings: analytic methods* [*For the purely algebraic theory, see* 20G05.]

Gelbart, Stephen (*7382,*12654)
Langlands, Robert P. (*7387)
Novodvorskiĭ, M. E.; et al. (239,240)
Novodvorsky, Mark E. (10146)
Pjateckiĭ-Šapiro, I. I.; et al. (239,240)
Robert, Alain (12656)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (12656)
Whittemore Lectures in Mathematics, 1967 (*7387)

22E60 *Lie algebras of Lie groups* [*For the algebraic theory of Lie algebras, see* 17Bxx.]

(Lee, Che Young) (*365)
Magnin, Louis; et al. 10510
Nazarjan, R. O. (5388)
Simon, Jacques; et al. 10510
Wan, Chê Hsien (*365)

22E65 *Infinite dimensional Lie groups and their Lie algebras* [*See also* 17B65,58H05.]

Hofmann, Karl H. 5397a-d
Ismagilov, R. S. 475,(2887)
Plymen, R. J. (7707)
Simon, Jacques 476
Vigué, Jean-Pierre (7873)
Séminaire P. Dubreil (27e année: 1973/74), Fasc. 1 5397a-d

22E70 *Applications of Lie groups to physics; explicit representations* [*See also* 81-XX.]

Aguirre, E.; et al. 477
Ališauskas, S. I. 10512
Ališauskas, S. I.; et al. 10511
Backhouse, Nigel 5398
Browne, Seán; et al. (2882)
Debacker-Mathot, Fr. (1918)
Esteve, A.; et al. 477
Floratos, E. G.; et al. (6714)
Green, H. S.; et al. (1921)
Havlíček, M.; et al. (10354)
Hurst, C. A.; et al. (1921)
Ilamed, Y. (1921)
Kyriakopoulos, E.; et al. (6714)
Lassner, W.; et al. (10354)
Patera, J.; et al. 2891
Rozenbljum, A. V. 478
Šijački, Djordje (2882)
Vanagas, V. V.; et al. 10511
Winternitz, P.; et al. 2891
Wulfman, C. E.; et al. 479
Wybourne, B. G.; et al. 479

22E99 *None of the above, but in this section*

Moskowitz, Martin; et al. 12993
Ochiai, Takushiro; et al. 480
Rothschild, Linda Preiss; et al. 12993
Siwek, Edward (1109)
Takahashi, Tsunero; et al. 480

26—XX FUNCTIONS OF REAL VARIABLES (See also 54C30.)

(Nikol'skiĭ, S. M.) *12994
Terracher, Pierre H. (8289)
Differentiable functions *12994
Studies in the theory of differentiable functions of several variables and its applications, VI *12994

26-01 *Elementary exposition (collegiate level)*

Anderson, Kenneth W.; et al. *10513
Baranenkov, G.; et al. (*2370)
de Bruijn, N. G. (4983)
Demaria, Davide Carlo (*6053a-b)
Demidovič, B. P.; et al. (*2370)
Efimenko, V.; et al. (*2370)
Fleming, Wendell *10514
Frolov, S.; et al. (*2370)
Hall, Dick Wick; et al. (*10513)
Janpol'skiĭ, A. R.; et al. (*2370)
Kogan, S. M.; et al. (*2370)
Köhnen, Walter 5399
Lunc, G. L.; et al. (*2370)
Meschkowski, Herbert (*4880)
Niedokos, Edward; et al. (*3889)
Oktaba, Wiktor; et al. (*3889)
Poršneva, E. F.; et al. (*2370)
Riedrich, Thomas (2382)
Šostak, R. Ja.; et al. (*2370)
Syčeva, E. P.; et al. (*2370)
Youse, Bevan K. *10515

26A03 *Foundations: limits and generalizations, elementary topology of the line*

Korn, Henry; et al. 10516
Priest, Dean B.; et al. 5400
Rotando, Louis M.; et al. 10516
Wayland, Keith; et al. 5400

26A06 *One-variable calculus*

Alpert, Louis I. 10517
Bobillo Guerrero, Pablo 5401
Rizzitelli, Giuseppe 10518
Proceedings of the Annual Conference of Spanish Mathematicians, Eleventh (Murcia, 1970) 5401

26A09 *Elementary functions*

Klamkin, Murray S. 2892
Mullikin, Harry C. 481

26A12 *Rate of growth of functions, orders of infinity, slowly increasing functions* [*See also* 26A48.]

Arandelović, D. 10519
(Ash, J. Marshall) 7710
(Erdős, P.) 7710
Heppner, E. 7710
(Rubel, L. A.) 7710
Seneta, E. (3204,8905)
Weissman, Ishay 5402

26A15 *Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.)* [*For properties determined by Fourier coefficients, see* 42A16; *for those determined by approximation properties, see* 41A25.]

Ceder, Jack (6067)
Galan, D. M. (8098)
Garsia, Adriano M. (1364)
Kahle, Dieter 10520
Korovkin, P. P. (10523)
Lipiński, J. S. 12995
Manna, N. C. 2893
Miller, M. H., Jr. 12996
O'Malley, Richard J. 12997
Ram, Babu (835)
Scherer, Karl (8094)
Shanahan, Patrick 7711
Smítal, J. 5403
Spline-Funktionen (Vorträge und Aufsätze, 1973) (8094)

26A16 *Lipschitz (Hölder) classes*

Garsia, A. M.; et al. 2894
Rodemich, E.; et al. 2894
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires 2894

26A18 *Iteration* [*See also* 39A20.]

Nathanson, Melvyn B. 5404,(12532)

26A21 *Classification of real functions; Baire classification of sets and functions* [*See also* 04A15,28A05,54C50.]

Grande, Zbigniew 12998
O'Malley, Richard J. *5405

26A24 *Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems* [*See also* 28A15.]

Babcock, Bruce S. 2895
Evans, Michael J. 5406
Fleissner, Richard J. 12999
Fujito, Isami 482
Goffman, Casper 13000
Moreno Armella, Luis 7712
O'Malley, Richard J. (*5405)
Pu, Huan Wēn; et al. 483
Pu, Hui Min; et al. 483
Stocke, Britt-Marie; et al. 10521
Wallin, Hans; et al. 10521
Collection: Soochow University 483

26A27 *Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives*

Filipczak, F. M. 5407
Rossi, Guido A. 7713
Šmidov, F. I. 2896

26A33 *Fractional derivatives and integrals*

Brédimas, Antoine (8272,8273)
Kalla, S. L. (13484)
Korobeĭnik, Jú. F.; et al. 2897
Saakjan, B. A.; et al. 2897

26A39 *Denjoy and Perron integrals, other special integrals*

Helton, Burrell W. (3067)
Jeffery, R. L. 2898
Lee, Cheng-Ming 484
Topics in analysis (Colloq. Math. Anal., Jyväskylä, 1970) 2898

26A42 *Integrals of Riemann, Stieltjes and Lebesgue type* [*See also* 28-XX.]

Finkelstein, Mark; et al. (13018)
Korovkin, P. P. 10522,10523
Osgood, Charles F.; et al. (6467)
Shisha, Oved; et al. (6467)
Whitley, Robert; et al. (13018)

26A45 *Functions of bounded variation, generalizations*

Bojanov, Borislav 10524
Cerami, Giovanna 7714

26A45 *Continued*

Giovannelli, Nicolò 7715
Huggins, Frank N. 7716
de Lucia, Paolo (496)
Nadiraŝvili, N. S. 13001
Senator, K. 7717
Waterman, Daniel 5408

26A48 *Monotonic functions, generalizations*

Donath, G.; et al. 2899
Elster, K. H.; et al. 2899
Evans, Michael J. (5406)
Wobst, Reinhard 13002

26A51 *Convexity, generalizations*

(Ger, Roman) (8448)
Hsu, Ih Ching (3356)
Hsu, Ih Ching; et al. (11059)
Kuczma, Marek (8448)
Kuller, Robert G.; et al. (11059)
Marshall, Albert W.; et al. 5409
Mititelu, Ştefan 5410
Proschan, Frank; et al. 5409
Zalik, R. A. 7718
Inequalities, III 5409

26A54 *Several variables: continuity and differentiation questions*

Di Bari, Cristina Maria 7719
Grande, Zbigniew 7720
Hiriart-Urruty, Jean-Baptiste 13003

26A57 *Several variables: implicit function theorems, Jacobians, transformations with several variables*

Chenais, Denise 13004
Clarke, F. H. 13005
Craven, B. D. 2900
Halkin, Hubert 10525
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 10525

26A60 *Calculus of vector functions*

Tošev, B. 485

26A63 *Integration: length, area, volume*

Meĭlanov, V. S. (2926)

26A66 *Integral formulas (Stokes, Gauss, Green, etc.)*

Auer, J. W. (11371)
Mugalov, A. G. 486

26A69 *Special properties of functions of several variables, Hölder conditions, etc.*

Adamski, Andrzej 487
Cahill, Rotraut Goubau 10526

26A72 *Superposition of functions*

Doss, Raouf (13469,13470)
Wilczyński, Władysław 7721

26A75 *Polynomials (analytic properties, inequalities, etc.)*

Kallenberg, Olav (5198)
Pierre, R.; et al. 488
Rahman, Q. I.; et al. 488
Varma, A. K. 10527

26A82 *Inequalities for trigonometric functions and polynomials*

Fil'ŝtinskiĭ, V. A. (13430)
Ho Tho Cao (8087)
Ivanov, V. I. (829)

26A84 *Inequalities involving derivatives and differential and integral operators*

Bradley, J. S.; et al. (13206)
Everitt, W. N.; et al. (13206)
Gluŝko, V. P. 10528
Kostin, V. A. 10529
Ligun, A. A. 489
Pachpatte, B. G. (10722)
Rasmussen, David L. 490
Sharma, A.; et al. 10530
Spiegel, Wolfgang 491
Tzimbalario, J.; et al. 10530

26A86 *Inequalities for sums, series and integrals*

Brascamp, Herm Jan; et al. 492
Calderón, A. P. 10531
Florkiewicz, B.; et al. 13006
Godunova, E. K.; et al. 7722,13007
Hartung, Joachim G. (14028)
Kostić, Dragutin J. 5411
Levin, V. I.; et al. 7722,13007
Lieb, Elliott H.; et al. 492
Rybarski, A.; et al. 13006
Stanković, Ljubomir 493
Stein, S. K. 2901
Székely, G. J. 7723
Differential equations and inequalities 7722

26A87 *Other analytic inequalities*

Beesack, Paul R. 2902
Das Gupta, Somesh 13008
Rozenfel'd, E. A. (921)

26A93 *C^∞-functions, quasi-analytic functions*

Geĭsberg, S. P. 2903
Levy-Bruhl, Pierre (8704)

26A98 *Nonstandard analysis* [*See also* 02H25.]

Ahmad, Salah; et al. 7724
Lightstone, A. H.; et al. (*2457)
Robinson, Abraham; et al. (*2457)
Yaaseen, Adel A. K. et al. 7724

28—XX MEASURE AND INTEGRATION (For analysis on manifolds, see 58—XX.)

Kac, M. P. (8282)

28-01 *Elementary exposition (collegiate level)*

Hawkins, Thomas *2904
Ingleton, A. W. *10532

28-02 *Advanced exposition (research surveys, etc.)*

Henstock, Ralph *7725

28A05 *Classes of sets (Borel fields, σ-rings, etc.) measurable sets, Suslin sets, analytic sets* [*See also* 04A15, 26A21,54H05.]

Abian, Alexander 13009
Afanas'eva, L. G.; et al. 13010
Dauer, Jerald P.; et al. (1048)
Hashimoto, Hiroshi (1179)
Laver, Richard (10019)
Martin, N. F. G. 10533
McLaughlin, T. G. (10020)
Mendez, C. G. 5412
Pal, M. 7726
Petunin, Ju. I.; et al. 13010
Talagrand, Michel 10534
Tall, Franklin D. 7727
Van Vleck, F. S.; et al. (1048)

28A10 *Real- or complex-valued set functions, contents, measures, outer measures, capacities, etc.*

Appling, William D. L. 5413,13011
Christensen, Jens Peter Reus; et al. 495
Cobzaş, S. 13012
Crenshaw, J. A.; et al. 13013
Ersov, M. P. 494
Haraziŝvili, A. B. 7728
Herer, Wojchiech; et al. 495
Hudson, William N. (14040)
Kinokuniya, Yoshio 5414,5415
Kirk, R. B.; et al. 13013
Miller, Harry I. 10535
Plachky, Detlef 7729
Ridder, J. 5416
Rosenmüller, J.; et al. 10536
Şimovici, Dan A. (14891)
Thomson, B. S. 10537
Topsøe, Flemming 7730
Weidner, H. G.; et al. 10536
Yeh, R. Z. 7731
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part I 494

28A15 *Abstract differentiation theory, differentiation of set functions* [*See also* 26A24.]

Cordoba, Antonio 7732
Costinescu, Olga 7733
Gil'derman, Ju. I. 5417
Kenyon, Hewitt; et al. *13014
de Lucia, Paolo 496
Morse, Anthony Perry; et al. *13014
Petersen, G. M.; et al. 10538
Rubio, Baldomero 10539
Senator, K. (7717)
To, T. O.; et al. 10538
Uglanov, A. V. 497
Collection: Bompiani, Enrico 7733
Imbedding theorems and their applications (Proc. Sympos., Baku, 1966) 5417

28A20 *Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence*

Edgar, G. A. 7734
Feyel, Denis 13015
Hart, Sergiu; et al. 10540
Himmelberg, C. J.; et al. 13016
Kohlberg, Elon; et al. 10540
Korovkin, P. P. (10523)
Leese, S. J. 5418a-b
Lehn, Jürgen 5419
Meyer, Burnett (10626)
Mott, Thomas E. 10541a-b
Parthasarathy, T. *5420
Saint-Pierre, Jean 10542
Van Vleck, F. S.; et al. 13016
Walter, Wolfgang 13017

28A25 *Integration with respect to measures and other set functions*

Collins, Michael J.; et al. (13708)
Easton, R. J.; et al. (3380)
Finkelstein, Mark; et al. 13018
Grimeisen, Gerhard 10543,10544
Kahane, Jean-Pierre; et al. (13708)
Korovkin, P. P. (10522)
de Korvin, A.; et al. (3380)
Whitley, Robert; et al. 13018

28A30 *Integration theory via linear functionals (Radon measures, Daniell integrals, etc.)*

Ambrosetti, Rodolfo 498
Reneke, James A. 499
Topsøe, Flemming 13019

28A32 *Measures on topological spaces (regularity of measures, etc.), spaces of measures, weak convergence of measures, etc.* [*See also* 46E27, 60Bxx.]

Babiker, A. G. A. G. 13020,13021
Christensen, Jens Peter Reus (867)
Crenshaw, J. A.; et al. (13013)
Flachsmeyer, Jürgen; et al. (10923)
Hoffmann-Jørgensen, J. 5421
Kirk, R. B.; et al. (13013)
Lozanovskiĭ, G. Ja. 5422
Ōno, Takeshi 7735,(8254)
Pavlić, I. 7736
Pečerskiĭ, E. A. (3789)
Pfeffer, W. F. 10545
Pollard, David (3382)
Terpe, Frank; et al. (10923)
Topsøe, Flemming 500,*10546

28A35 *Measures and integrals in product spaces*

Bertin, Émile M. J. (10370)
Lozanovskiĭ, G. Ja. (5422)
Sinclair, George Edward 5423
Topsøe, Flemming (5428)

28A40 *Measures and integrals in function spaces and linear spaces, Weiner measure* [*See also* 46Gxx.]

de Acosta, Alejandro (8770)
Badrikian, Albert; et al. (8771,*8772)
Borell, Christer (1353)
Chevet, Simone; et al. (8771,*8772)
Čobanjan, S. A. (11425)
Danilovic, V. P.; et al. 7737
Dudley, R. M.; et al. 2905
Egorov, A. D. 13022
Feldman, Jacob (11474)
Feldman, Jacob; et al. 2905
Finlayson, Henry C. 10547
Fomin, S. V.; et al. (8776)
Gadžiev, V. G. 13023
Garling, D. J. H. (11427)
Heidemann, Dirk 10548
Hida, Takeyuki (6249)
Koval'čik, I. M.; et al. 7737
Kozak, P. P. (629)
Krée, Paul (5828)
Kuo, Hui Hsiung 5424
LeCam, L.; et al. 2905
Lin, T. F. (8861)
Maheshwari, Amar 2906
Maurey, B. 13024
Nahoum, A. 13025
Romanov, V. A. (3404)
Schachermayer, Walter 501
Schwartz, Laurent (900),5425a-c,(8775,*14030)
Shimomura, Hiroaki 7738,7739
Skoug, David 10549
Słowikowski, W. 502
Smoljanov, O. G.; et al. (8776)
Sobolevskiĭ, P. I. 5426,13026
Takahashi, Yasuji 5427
Topsøe, Flemming 5428
Tortrat, A. 13027
Uglanov, A. V. (497)
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (900,8771)
Les probabilitiés sur les structures algébriques (8775)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II (11474)
Proceedings of the Symposium on Continuum Mechanics and Related Problems of Analysis (Tbilisi, 1971), Vol. 1 (6249)
Questions on numerical mathematics and programming (11425)
Questions of statistics and of the control of random processes 13023
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes 5425a-c
Séminaire Pierre Lelong (Analyse), Année 1974/75 (5828)
Séminaire Maurey-Schwartz Année 1972-1973: Espaces L^p et applications radonifiantes 13024,13025

28A45 *Vector-valued and group-valued measures and integrals. Measures and integrals with values in general algebraic systems* [*See also* 46G15.]

Artstein, Zvi 5429
Bagby, Richard; et al. 503
Brooks, James K.; et al. (8280)
Bucchioni, Danièle 504
Castaing, Charles 2907,2908
Constantinescu, Corneliu 5430,5431
Diestel, J.; et al. 7740
Dinculeanu, Nicolae; et al. (8280)
Drewnowski, L. 10550
Faires, B.; et al. 7741
Gusel'nikov, N. S. 7742
Herer, Wojciech 10551
Khurana, S. S. 505
Klimkin, V. M. 506
Miheev, Ju. V. 5432
Morrison, T. J.; et al. 7741
Page, Warren (908)
Ressel, Paul 2909
Seifert, C. J.; et al. 7740
Šilov, G. E. (13516)
Swartz, Charles; et al. 503
Traynor, Tim 7743
Turett, Barry; et al. (11052)
Uhl, J. J., Jr.; et al. (11052)
Weber, Hans 13028
White, A. J. 5433
Intégration vectorielle et multivoque (Colloq., Univ. Caen, Caen, 1975) 2908

28A50 *Integration and disintegration of measures* [*For lifting theory, see* 46G15.]

Castaing, Charles (2907)
Dubins, Lester E. 13029
Edgar, G. A. 507
Johnson, Russell A. 10552
Rajagopalan, M.; et al. (3360)
Roy, A. K.; et al. (3360)
Schwartz, Laurent 2910
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionelle. Deux journées p-radonifiantes 2910

28A55 *Measures and integrals with values in general ordered systems*

Ambrosetti, Rodolfo (498)
Halikulov, I. B.; et al. 5434
Kappos, D. A. (8860)
Kuckarov, Ja. H.; et al. 5434
Rudin, V. N. 13030,13031
Les probabilités sur les structures algébriques (8860)
Mathematical questions, No. 3 13030,13031

28A60 *Measures on Boolean rings, measure algebras* [*See also* 54H10.]

Ajupov, Š. A. 13032
Christensen, Jens Peter Reus; et al. (495)
Gol'dšteĭn, M. Š. 5435
Herer, Wojchiech; et al. (495)
Höhle, Ulrich 10553
Krans, Przemysław (12584)
Popov, V. A. 7744
Wilhelm, M. (2237)

28A65 *Measure-preserving transformations, flows (dynamical systems), measurestheoretic ergodic theory* [*See also* 47A35, 54H20,58Fxx.]

Akcoglu, M. A.; et al. 508,2911
Aribaud, François 10554
Astbury, K. A. 10555
Atkinson, Giles 7745
Baxter, J. R.; et al. 2911
Benveniste, Albert (6246)
Blanchard, François 5436,10556
Grown, Gavin; et al. (3291)
Chacon, R. V. 10557
Connes, A. (946)
Conze, Jean-Pierre 5437
Cunsolo, J.; et al. 508
Dani, S. G. 7746
Ellis, Martin H. 2912
Feldman, Jacob; et al. 13033
Fong, Humphrey; et al. 10558
Forrest, Peter 5438
Furstenberg, Harry (10484)
Gallavotti, Giovanni 10559
Gologan, Radu-Nicolae 7747
Grillenberger, Christian 10560
Halász, G. 13034
Hamachi, Toshihiro 7748
Haraziśvili, A. B. 7749
Hasegawa, Sigeru 13035
Hewitt, Edwin; et al. (3291)
Johnson, P.; et al. 2913
Johnson, Russell A. (10552)
del Junco, Andrés 2914,7750
Kamiński, B.; et al. 10561
Katok, A. B. 509
Kifer, Ju. I.; et al. 7751
Klimko, Eugene M. 510
Kocergin, A. V. (3761)
Krengel, Ulrich (11469)
Krieger, Wolfgang 2915,(3430),5439,10562
Lance, E. Christopher (8306)
Lin, Michael 10563
Lin, Michael; et al. 10558
Marcus, Brian (1302),10564
Martin, N. F. G. (10533)
Mercer, A. McD. (5156)
Moore, Calvin C.; et al. 13033
Moulin Ollagnier, Jean; et al. 10565
Neveu, J. 511
Nguyen Xuan Xanh; et al. (11576)
Ornstein, Donald S.; et al. 512
Pham Phu Hien 513
Pinchon, Didier; et al. 10565
Pipkin, A. C.; et al. 2921
Pirogov, S. A.; et al. 7751
Port, Sidney C.; et al. (6247)
Quiring, Donald; et al. 2916
Rauzy, Gérard 10566
Rudolph, Daniel 2917,2918
Rudolph, Daniel J.; et al. 2919
Rudolfer, S. M. 5440
Ruelle, David 5441
Ryff, John V. 7752
Sacksteder, Richard (3764)
Saleski, Alan (8585)
Samuelidès, Manuel; et al. 7753
Sąsiada, E.; et al. 10561
Sato, Ryotaro 2920,10567
Sauvageot, Jean-Luc; et al. 7753
Schmitt, Bernard 7754
Schwarz, Gideon 13036
Schwarz, Gideon; et al. 2919
Sigmund, Karl 5442,13037
Sine, Robert (854)
Sklar, A.; et al. 2913
Smorodinsky, Meir *10568
Smythe, R. T. (11471)
Spohn, H. 10569
Stone, Charles J.; et al. (6247)
Turek, Richard J.; et al. 2916
Veršik, A. M. 514
Vitale, R. A.; et al. 2921
Walters, Peter 515,2922,2933
Weiss, Benjamin 7755,7756
Weiss, Benjamin; et al. 512
Zessin, Hans; et al. (11576)
Zimmer, Robert J. 2924,10570,13038
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10557
Conference on Ergodic Theory and Topological Dynamics (Kibbutz Lavi, 1974) 512,(1302)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 7756,10562
Recent advances in topological dynamics (Proc. Conf. Topological Dynamics, Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund) 7755
Séminaire Boubaki (1972/1973: Exposés Nos. 418-435) 5437
Séminaire de Probabilités, IX 13037

28A70 *Invariant measures, Haar measure* [*See also* 43A05.]

(Bechtolsheim, Lulu) *2925
Erdős, Paul; et al. 516
Mauldin, R. Daniel; et al. 516
Mukherjea, Aronava; et al. 517
Nachbin, Leopoldo *2925
Nižaradze, G. V. 10571,10572
Seda, A. K.; et al. 13039
Tsarpes, Nicholas A.; et al. 517
Wickstead, A. W.; et al. 13039

28A75 *Length, area, volume, other geometric measure theory* [*See also* 26A63,49F20.]

Ambarcumjan, R. V. (14035)
Bruckner, A. M.; et al. 5443
Ernst, Lawrence R. 10573
Ernst, Lawrence R.; et al. 7757
Freilich, Gerald; et al. 7757
Kaufman, R. 518
Meĭlanov, V. S. 2926
Nishiura, Togo 519
O'Farrell, Anthony G. 520
Thorne, Charles L.; et al. 5443
Vinti, Calogero 7758
Collection: Muskhelishvili, Nikolai Ivanovich 519

30—XX FUNCTIONS OF A COMPLEX VARIABLE (For analysis on manifolds, see 58—XX.)

30-01 *Elementary exposition (collegiate level)*

Bauer, Burkard 7759
Charris C., Jairo 2927,2928,10574
Flanigan, Francis J. *10575

30-02 *Advanced exposition (research surveys, etc.)*

Malliavin, Paul 2929

30-03 *Historical*

Čerskiĭ, Ju. I.; et al. (33)
(Gahov, F. D.) (33)
Hvedelidze, B. V.; et al. (33)
Litvinčuk, G. S.; et al. (33)
Bibliography: Gahov, F. D. (33)
Birthday: Gahov, F. D. (70th) (33)

30-06 *Collections of papers; proceedings of conferences*

Analytic functions *7760
Conference on Analytic Functions, Sixth (Krakow, 1974) *7760
Convegno sulla Teoria Matematica dell'Elettromagnetismo (INDAM, Roma, 1974) (2379)
Convegno sulla Transformazioni Quasiconformie Questioni Connesse (INDAM, Roma, 1974) (2379)
Elettromagnetismo (2379)
INDAM, Roma, Convegno sulla Teoria Matematica dell'Elettromagnetismo (Fabbraio, 1974) (2379)
INDAM, Roma, Convegno sulla Transformazioni Quasiconformie Questioni Connesse (Marzo, 1974) (2379)
Mathematical theory of electromagnetism (2379)
Proceedings of the Conference on Analytic Functions, Sixth (Krakow, 1974) *7760
Quasiconformal transformations (2379)
Symposia Mathematica, Vol. XVIII (2379)
Teoria matematica dell'elettromagnetismo (2379)
Trasformazioni quasiconformi (2379)

30A04 *Explicit machine computation and programs (not the theory of computation or programming)*

Rubel, L. A.; et al. 521
Shields, A. L.; et al. 521
Taylor, B. A.; et al. 521

30A06 *Polynomials*

Govil, N. K.; et al. 2930
Jain, V. K.; et al. 2930
Labelle, G.; et al. 2930
Quine, J. R. 7761
Terkelsen, Frode 2931

30A08 *Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral)* [*For algebraic theory, see* 12D10; *for real methods, see* 26A78.]

Ahn, S. M.; et al. 2932
Hearon, John Z. 10576
Howard, F. T. 5444
Jury, E. I.; et al. 2932
Marden, Morris 7762
Marugciac, I. 5445
Rahman, Q. I. 13040
Zeheb, Ezra 10577

30A10 *Power series (including lacunary series)*

Beljaev, V. A. (8075)
Bogda, Richard; et al. 7763
Frank, J. L.; et al. 13041,13042
Hwang, J. S. 522,523
Selberg, Henrik L. 10578
Shankar, Hari; et al. 7763
Shaw, J. K.; et al. 13041,13042
Vavilov, V. V. 10579

30A16 *Dirichlet series and other series expansions, exponential series* [*See also* 40-XX, 41-XX,42-XX.]

Anderson, J. A. (13362)
Apostol, Tom M. (*10149)
Bauermeister, H. 7764
Cegelik, G. G. 10580
Deák, J. 5446
Galimov, I. S. 13043
Jurkęztowicz, Z.; et al. 2933
Kopeć, J.; et al. 2933
Leont'ev A. F. 2934,13044
Lunina, M. A. 7765
Mel'nik, Ju. I. 13046
Molodenkov, V. A. 13045
Nandan, Krishna 13047
Prokopcev, S. F. 7766
Robertson, M. M.; et al. (253)
Ts'ēng, Chūn Hung (851)
Zucker, I. J.; et al. (253)
Theory of functions and its applications (collection of articles dedicated to S. M. Nikol'skiĭ on the occasion of his seventieth birthday) 2934

30A18 *Completeness problems, closure of a system of functions*

Hačatrjan, I. O. 524
Neuwirth, J. H. 10581

30A20 *Functional equations in the complex domain, iteration and composition of analytic functions* [*See also* 34A20,39A15.]

Chiappini Santi, Elisabetta; et al. 10582
Kairies, Hans-Heinrich 13048
Kirjackis, E. (10907)
Tomasini Messia, Maria Grazia; et al. 10582
Urabe, Hironobu; et al. 13049
Yang, Chung Chun; et al. 13049

30A22 *Continued fractions* [*See also* 10A30, 40A15.]

Field, David A. 5447
Gregor, Jiří 2935
Nikišin,E. M. 10583
Scientific Conference, Fourth, College of Transport Engineering, Žilina, Section 1 2935

30A24 *Conformal mappings of special domains*

Fenton, P. C. 13050
Gol'dberg, A. A.; et al. 5448
Mil'man, D. A.; et al. 7767
Musaev, B. I.; et al. 7767
Stročik, T. V.; et al. 5448

30A26 *Covering theorems in conformal mapping theory*

Blevins, Donald K. 525

30A28 *Numerical methods in conformal mapping theory*

Fil'čakova, V. P. *13051
Hofmann, Reinhard (14325)
Kokoulin, V. I.; et al. (1566)
Tolstobrova, N. I.; et al. (1567)
Večeslavov, V. V.; et al. (1566,1567)

30A30 *General theory of conformal mappings*

Aharonov, Dov; et al. 526
Bondar', A. V.; et al. 2936
Čigarev, V. N. *5449
Dīab, F. M.; et al. 2936
Garabedian, P. R. 13052
Laura, Patricio A. A. 2937
Marcus, Moshe 527
Miller, Sanford S.; et al. 2938
Mocanu, Petru T.; et al. 2938
Reade, Maxwell O.; et al. 2938
Shapiro, Harold S.; et al. 526
Todorov, P. G. 5450
Proceedings of the Symposium on Complex Analysis (Canterbury, 1973) 526

30A31 *Kernel functions and applications*

Saitoh, Saburou 10584
Suita, Nobuyuki; et al. (13142)
Yamada, Akira; et al. (13142)

30A32 *Special classes of univalent and multivalent functions (star-like, convex, bounded rotation, etc.)*

Aharonov, D.; et al. 2939
Aleksandrov, I. A. 528
Barnard, R. W. 529,10585
Campbell, Douglas M.; et al. 7768
Chen, Ming Po 13053,13054
Chiba, T. 5451
Chichra, Pran Nath 10586,13055
Eenigenburg, Paul; et al. 13056
Fait, Maria; et al. 10587
Friedland, S.; et al. 2939
Goel, R. M. 2940
Gupta, V. P.; et al. 2941,7769
Hornich, Hans 2942
Jain, P. K.; et al. 2941,7769
Janczar, Bogdan 10588
Kirjackis, E. 5452,5453
Krzyż, Jan G.; et al. 10587
Lewandowski, Zdzisław; et al. 530,531
Libera, R. J.; et al. 13057
Miller, Sanford; et al. 530
Nasr, Mostafa A. 532
Noonan, J. W. 2943
Poreda, Tadeusz 13058
Royster, W. C.;et al. 13059
Ruscheweyh, Stephan 533
Ruscheweyh, Stephan; et al. 13060
Shah, S. M.; et al. (5465)
Silverman, Herb 2944,2945
Silvia, E. M. 534
Singh, Vikramaditya; et al. 13060
Sizuk, P. I. 13061
Takijima, Kunio; et al. 13063
Trimble, S. Y.; et al. (5465)
Uluçay, C. 13062
Umezawa, Toshio; et al. 13063
Umgeher, Karl 535
Wajler, S.; et al. 531
Yoshikawa, Hirosaku; et al. 13056
Zderkiewicz, Józef 5454
Ziegler, Michael R.; et al. 7768,13059
Złotkiewicz, Eligiusz; et al. 530,13057
Zygmunt, Jadwiga; et al. 10587

30A34 *Coefficient problems for univalent and multivalent functions*

Aleksandrov, I. A.; et al. 536
Baranowicz, Józef 10589
Brannan, D. A. 537
Friedland, S.; et al. (11129)
Jensen, E.; et al. 10590
Kopanev, S. A.; et al. 536
Pfluger, Albert 5455
Schiffer, M.; et al. (11129)
Seiler, Andreas 13064
Smith, H. V. 13065
Truszyński, Antoni 7770
Waadeland, H.; et al. 10590
Zavozin, G. G.; et al. 536
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) 5455
Proceedings of the Symposium on Complex Analysis (Canterbury, 1973) 537

30A36 *General theory of univalent and multivalent functions*

Baernstein, Albert, III 5456
Bajpai, P. L.; et al. 10591
Brickman, Louis; et al. 13066

30A36 *Continued*

Jakubowski, Zbigniew Jerzy 2946
John, Fritz 10592
Noonan, J. W.; et al. 10593
Singh, Prem; et al. 10591
Thomas, D. K.; et al. 10593
Umgeher, Karl 2947
Wellstein, H. 538
Wilken, Donald; et al. 13066
Yamashita, Shinji 2948
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 2946

30A38 *Extremal problems, variational methods*

Andreev, V. A. 13067
Kufarev, P. P. 5457
Levin, A. L. (7795)

30A40 *Extremal problems, other methods*

Lo Cascio, Maria Laura 7771
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 130, Quaderno No. 4 7771

30A44 *Capacity and harmonic measure in the complex plane* [*See also* 31A15.]

Tamrazov, P. M. 539
Metric questions of the theory of functions and mappings, No. V 539

30A46 *Compact Riemann surfaces and uniformization* [*See also* 14H15, 32G15.]

Earle, Clifford J.; et al. (13140)
Engber, Michael (3031)
Holmann, H. *2949,*2950
(Kaup, B.) *2949,*2950
Kra, Irwin; et al. (13140)
Kuribayashi, Akikazu (5243)
Lang, Serge (*7483)
(Manin, Ju. I.) (*7483)
Maskit, Bernard 10594
Pomeranceva, L. I. 321
Contributions to analysis (a collection of papers dedicated to Lipman Bers) 10594

30A48 *Classification theory of Riemann surfaces*

Baker, I. N. 10595
Huber, Alfred 13068
Kruškal', S. L. 10597
Kwon, Young K. (2998)
Nakai, Mitsuru (574)
Nakai, Mitsuru; et al. 10596,13069
Sario, Leo; et al. 10596
Schiff, J. L. 5458
Segawa, Shigeo; et al. 13069

30A50 *Ideal boundary theory*

Hasumi, Morisuke 5459
Kwon, Y. K.; et al. (13780a-b)
Sario, L.; et al. (13780a-b)

30A52 *Differentials on Riemann surfaces*

Baskan, Turgut 2951
Dumkin, V. V.; et al. 2952
Jordan, Steven L. 5460
Kawamura, Michihiko 5461
Lahtinen, Aatos 7772,7773
Minda, C. D.; et al. 7774
Minda, Carl David 7775
Rodin, B.; et al. 7774
Šeretov, V. G.; et al. 2952
Wason, Judith C. (5507)
Watanabe, Osamu 2953

30A58 *Discontinuous groups and automorphic functions* [*See also* 10Dxx,20H10 *and* 32Nxx.]

Bers, L. (10677)
James, David A. (238)
Ljan, G. M. 13070
Marden, Albert 540
May, Coy L. 13071
Nakada, Masami 5462
Natanzon, S. M. 541
(Novodvorskiĭ, M. E.) (10677)
Patterson, S. J. (10152),13072
Pommerenke, Ch. 2954,2955
Riley, Robert 542,(13896)
Sato, Hiroki 5463
Schiffer, M.; et al. 10598
Schober, G.; et al. 10598
Wolpert, Scott (10678)
Zarrow, Robert (2831)
Zaruckaja, V. V. 2956
Zieschang, Heiner (7655)
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) 540,2954,10598
Collection of articles dedicated to the memory of Ivan Georgievič Petrovskiĭ (1901-1973), I (10677)

30A60 *Quasiconformal mappings and functions*

Andreian Cazacu, Cabiria 13073a-b
Becker, Jochen 2957
Earle, C. J. 543
Gol'dšteĭn, V. M.; et al. 2961
Harrington, A.; et al. 13074
Levickiĭ, B. E. 2958,2959
Levickiĭ, B. E.; et al. 544
Martio, O. 545
Mitjuk, I. P.; et al. 544
Ortel, M.; et al. 13074
Reich, Edgar 7776
Rickman, Seppo 2960
Sarvas, Jukka 546
Srebro, Uri 13075
Vodop'janov, S. K.; et al. 2961
Volynec, I. A. 547
Wojciechowska, Maria 548
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) 7776,13075
Crash course on Kleinian groups 543
Mathematical analysis, No. 2 544,2958,2959
Metric questions of the theory of functions and mappings, No. V 547

30A62 *Representations of entire functions by series and integrals*

Bala, Shakti 13076
Bose, S. K.; et al. 13077
Ševcov, V. I. 13078
Srivastava, S. N.; et al. 13077
Verbickiĭ, B. V. 10599

30A64 *Special classes of entire functions and growth estimates*

Bajpai, S. K.; et al. 5464
Hacatrjan, K. N. 2962
Hile, Gerald N. (706)
Juneja, O. P.; et al. 5464
Kapoor, G. P.; et al. 5464
Ostrovskiĭ, I. V. 549
Shah, S. M.; et al. 5465
Trimble, S. Y.; et al. 5465

30A66 *Entire functions, general theory*

Bajpai, S. K. 13079
Baker, I. N. 7777
Gencev, Todor 2963
Haruki, Hiroshi 2964
Ibragimov, I. I.; et al. (10612)
Kamthan, Pawan Kumar 2965
Kaz'min, Ju. A. 7778
Kobayashi, Tadashi 10600
Korobeĭnik, Ju. F. (7923)
Ozawa, Mitsuru 5466
Šihaliev, N. I.; et al. (10612)
Yang, Chung Chun 7779

30A68 *Meromorphic functions, general theory*

Barker, G. P.; et al. 7781
Čibrikova, L. I.; et al. 2966
Frank, Günter 10601
Gončar, A. A.; et al. 5467
Grigorjan, L. D.; et al. 5467
Gylys, A.; et al. 10602
Kulagina, M. F.; et al. 2966
Naftalevičins, A.; et al. 10602
Sandler, R. L. 7780
Singh, S. K.; et al. 7781

30A70 *Distribution of values, Nevanlinna theory*

Balk, M. B.; et al. (10617)
Barakat, M. F. A. 2967
Brownawell, W. Dale (5126)
Dinghas, Alexander 550
Faĭnberg, E. D. 13080
Gol'dberg, A. A.; et al. 2968,(10617)
Gruman, Lawrence (571)
Kamthan, P. K. 551
Kobayashi, Tadashi 2969
Korenblum, Boris 13081
L'vova, S. V. (3034)
Mohon'ko, V. D.; et al. 2968
Mori, Seiki 13082
Nevanlinna, Rolf *5468
Niino, Kiyoshi (3035)
Ozawa, Mitsuru 7782
Toda, Nobushige 7783
Mathematical physics and functional analysis, No. V (3034)

30A72 *Cluster sets, prime ends, boundary behavior*

Aĭrapetjan, A. N. 2970
Gauthier, P. M. 2971
Gavrilov, V. I. 5469
Gavrilov, V. I.; et al. 2972
Groening, William A. 552
Hamlett, T. R. 7784
Hayashi, Mikihiro 13083
Kanatnikov, A. N. 5470
Lewandowski, Z.; et al. 2973
Murai, Takafumi 10603
Niimura, Mikio 2974,13084
Ovčinnikov, I. S. 5471
Stankiewicz, J.; et al. 2973
Topurija, S. B. 2975
Yoshida, Hidenobu 553,7785
Zaharjan, V. S.; et al. 2972
Metric questions of the theory of functions and mappings, No. V 5471
Spline functions and approximation theory 2971

30A74 *Normal functions, normal families*

Pommerenke, Ch. 7786
Proceedings of the Symposium on complex Analysis (Canterbury, 1973) 7786

30A76 *Blaschke products, bounded characteristic, bounded functions, functions with positive real part*

Miller, Sanford S. 554

30A78 H^p, *quasianalytic and other classes of functions*

Ahern, P. R.; et al. 2976
Anderson, J. M.; et al. 7787
Burkholder, D. L. (8842)
Cima, Joseph A.; et al. 13085
Clark, D. N.; et al. 2976
Courtade-Coulomb, Geneviève 10604
Fefferman, Charles 7788
Kriete, T. L., III 555
Nakaamura, Yoshikuni 7789
Rooney, P. G. 556
Schober, Glenn; et al. 13085
Shields, A. L.; et al. 7787
Sinclair, Annette 10605
Strömberg, Jan-Olov 7790
Vinogradov, S. A. 10606
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8842)
Collection: Walsh, J. L. (VII) 10605
Harmonic analysis on homogeneous spaces (Proc. Sympos. Pure Math. Vol. XXVI) 7788

30A80 *Moment problems, interpolation problems*

Beccari, C. (4826)
Bojadžiev, Petr G. 10607
Earl, J. P. 7791
Kronstadt, Eric P. 557
Linden, H.; et al. 10608
Lipčinskiĭ, A. G. 13086,13087
Pittnauer, F.; et al. 10608
Rubel, L. A.; et al. 7792
Šamojan, F. A. 5472
Shields, A. L.; et al. 7792
Proceedings of the Central Regional Association of Mathematics Departments, No. 2 13086,13087

30A82 *Approximation in the complex domain*

Arakeljan, N. U. 10609
Bardzins'kiĭ, V. V. 2977
Brown, Leon; et al. 10610
Čirka, E. M. 5473
Ellacott, S.; et al. (1563)
Gamelin, T. W.; et al. 2978,(3413)
Garnett, J. B. 2978,(3413),7793
Gauthier, P. M.; et al. 10610
Geddes, K. O. 10611
Hudaĭberdiev, S.; et al. 5474
Ibragimov, I. I.; et al. 10612
Jacobson, Steven 7794
Lesley, F. D. 13088
Levin, A. 10613
Mamažanov, B.; et al. 5474
McCabe, J. H.; et al. 10614
Murphy, J. A.; et al. 10614
O'Farrell, Anthony G. (520)
O'Farrell, Anthony G.; et al. 7793
Rubel, L. A.; et al. 2978
Saff, E. B.; et al. 558,(3060)
Seidel, W.; et al. 10610
Shields, A. L.; et al. 2978
Šihaliev, N. I.; et al. 10612
Širokov, N. A. 559
Varga, R. S.; et al. 558,(3060)
Williams, Jack; et al. (1563)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10609
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 5474
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 10611

30A86 *Integration, integrals of Cauchy type, integral representations of analytic functions* [*See also* 45Exx.]

Asada, Akira 560
Issa, R. B. 2979
Levin, A. L. 7795
State, E. Y. 10615

30A88 *Boundary value problems*

Afjan, S. K. (8007)
Binderman, Zbigniew 13089
Donig, J. 7796
Gavrilov, S. K. 2980
Gognea, Sorin 13090
Gordienko, V. N. 561
Isahanov, R. S. 2981
Karelin, O. A.; et al. 2982
Kerekasa, P. V.; et al. 2982
Kimura, Tosihusa 7797
Kruglov, V. E. 13091
Magnaradze, L. G. 2983
Nazmiddinov, H. 562
Obolašvili, E. 10616
Pokazeev, V. I. 2984,2985
Sahonenko, V. M. 2986
Šerman, D. I. (4241)
Sznitko, Wanda 584
Usmanov, N. 13092
Zvirovič, L. F. 7798
Collection: Equations of mathematical physics, 4 2981
Continuum mechanics and related problems of analysis (4241)
Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) 7797
Method of integral manifolds in nonlinear differential equations 7798
Selected problems of mathematics and physics 2984,2985
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 7796

30A90 *Topological function theory*

Efremovič, V. A.; et al. 13093
Gorelik, E. M.; et al. 13093
Vaĭnšteĭn, A. G.; et al. 13093

30A92 *Generalized analytic functions*

Balk, M. B.; et al. 10617
Gilbert, R. P.; et al. (5629)
Gol'dberg, A. A.; et al. (10617)
Nazmiddinov, H.; et al. 2987
Schneider, Manfred; et al. (5629)
Usmanov, Z. D. 2988
Usmanov, Z. D.; et al. 2987
Withalm, C. 7799

30A93 *Pseudo-analytic functions*

Bauer, Karl Wilhelm; et al. 10618
Jank, Gerhard; et al. 10619
Ruscheweyh, Stephan; et al. 10618,10619
Three articles on pseudo-analytic functions and elliptic differential equations 10618,10619

30A95 *Discrete analytic functions*

Hušbaktov, Š. D. 5475
Mirzaev, Č. E. 5476

30A96 *Other generalizations functions (including abstract-valued functions)*

Danilevič, A. A. 7800
Filimonova, I. I. 13094
Globevnik, J. 563,(5832),13095
Leiterer, Jürgen (5511)
Nasibov, S. M.; et al. 5477
Tugizov, D. M.; et al. 5477

30A97 *Functions of hypercomplex variables and generalized variables*

Gilbert, R. P.; et al. 10620
Hile, Gerald; et al. 10620
Rizza, Giovanni Battista 10621
Collection: Bompiani, Enrico 10621

30A98 *Spaces and algebras of analytic functions* [*See also* 46J15.]

Apresjan, S. A. (3417)
Bogačev, V. A. 564
Bonar, D. D.; et al. 5478
de Branges, Louis (8256)
Brownawell, W. Dale (5126)
Burbea, Jacob 13096
Carroll, F. W.; et al. 5478
Gilbert, John E. 565
Globevnik, J. (905)
Haplanov, M. G. (13545)
Hayashi, Mikihiro (13083)
Kamthan, P. K.; et al. 13097
Krasičkov-Ternovskiĭ, I. F. 10622-10624
Mel'nikov, M. S. (13573)
Nguyen Thanh Van 8251
Øksendal, Bernt (11067)
Osadčiĭ, M. M. (3419)
von Renteln, Michael (13576)
Roberts, James W.; et al. 10625
Rubel, L. A.; et al. (7792)
Sarason, Donald (3416)
Sheil-Small, T. B. 5479
Shields, A. L.; et al. (7792)
Singh Gautam, S. K.; et al. 13097
Skiba, N. I.; et al. 7801
Stanton, Charles M. 2989
Stegbuchner, Hans 5480
Stoll, Manfred; et al. 10625
Taylor, B. A. 5481
Zaharjuta, V. P.; et al. 7801
Proceedings of the Symposium on Complex Analysis (Canterbury, 1973) 5479

31—XX POTENTIAL THEORY {For probabilistic potential theory, see 60J45.}

Bear, H. S. (8252)

31-02 *Advanced exposition (research surveys, etc.)*

Tsuji, M. *2990

31Axx Two-dimensional theory

31A05 *Harmonic, subharmonic, superharmonic functions*

Bančev, V.; et al. 7802
Burkholder, D. L. (8842)
Essén, Matts (13182)
Gluhčev, G.; et al. 7802
Gupta, P. N.; et al. 2991
Gupta, V. P.; et. al. 2991,7803
Jain, P. K.; et al. 7803
Wolfe, Peter 2992
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8842)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) (13182)

31A10 *Integral representations*

Andersen, Kenneth F. 7804

31A15 *Potentials and capacity, harmonic measure, extremal length*

Essén, Matts (13182)
Meyer, Burnett 10626
Ninomiya, Nobuyuki 566
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) (13182)

31A20 *Boundary behavior (Fatou type theorems, etc.)*

Gorbaĭčuk, V. I.; et al. 7805
Zadereĭ, P. V.; et al. 7805

31A25 *Boundary value and inverse problems*

Čeredničenko, V. G. 10627
Shah, Manilal 7806
Strahov, V. N. 7807

31A35 *Connections with differential equations*

Meyer, H. D. 10628

31Bxx Higher dimensional theory

31B05 *Harmonic, subharmonic, superharmonic functions*

Armitage, D. H. 567
Cahill, Rotraut Goubau (10526)
Chung, Lung Ock; et al. (8519)
D'Archangelo, J.; et al. 10629
Essén, M.; et al. 7808
Friedland, S.; et al. 568
Gur'janova, K. N.; et al. 569
Hayman, W. K. 7809,13100
Hayman, W. K.; et al. 568
Jackson, Howard L. 7810
Kemper, John T. 10630
Kozmanova, A. A.; et al. 569
Lewis, J.; et al. 7808
McCoy, P. A.; et al. 10629
Nadiraŝvili, N. S. 13098
Roach, Gary F. 570
Sario, Leo; et al. (8519)
Talpur, M. N. M. 7811,13099
Zeilberger, Doron 13101
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13100
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) 7809
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 7808
Séminaire de Théorie du Potentiel (15e année: 1972) 7810

31B10 *Integral representations*

Ho-Van-Thi-Si 5482

31B15 *Potentials and capacities, extremal length*

Adams, David R. (5822)
Deignan, Daniel J.; et al. 10631
Havinson, S. Ja. 2993
Kapanadze, Dž. V. 5483
Netuka, Ivan 7812
Ogievec'kiĭ, I. I. (4236)
Watson, N. A. 13102
Wizimirski, Z.; et al. 2994
Woronowicz, S.; et al. 2994
Ziemer, William P.; et al. 10631

31B20 *Boundary value and inverse problems*

Isakov, V. M. (10904)
Ito, Yoshifusa 7813
Quinn, D. W.; et al. 2995
Weinacht, R. J.; et al. 2995

31B25 *Boundary behavior*

Debiard, Amédée (3038)
Diederich, J. R. 7814
Gruman, Lawrence 571
Kuran, Ü. 7815
Williams, Stephen A. 2996

31B30 *Biharmonic and polyharmonic equations and functions*

Saak, E. M. (714)
Tanaka, Hidematu 7816

31B35 *Connections with differential equations*

Boboc, N.; et al. 10632
Mustaţă, P.; et al. 10632

31B99 *None of the above, but in this section*

Efimov, A. B.; et al. 2997
Konšina, E. V.; et al. 2997
Starostina, L. F.; et al. 2997
Vorob'ev, V. N.; et al. 2997

31Cxx Other generalizations

31C05 *Harmonic, subharmonic superharmonic functions*

Anandam, Victor 572
Brelot, Marcel 10633
Caballero, Emilia 10634
Constantinescu, Corneliu; et al. *7817
Cornea, Aurel; et al. *7817
Debiard, A.; et al. *7818
(Fuglede, B.) 10634
Gaveau, B. *7818
Glasner, Moses; et al. 573
Itô, Seizô 5484
Janušauskas, A. (14017)
Kruškal', S. L. (10597)
Kwon, Young K. 2998
Meyer, Paul-André 10635
Nakai, Mitsuru 574
Nakai, Mitsuru; et al. 573,575,7819,(10596)
Sario, Leo; et al. 575,576,7819,(10596)
Wang, Cecilia; et al. 576
Yau, Shing Tung (5502)
Collection: Brelot, Marcel 5484
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 10635
Séminaire de Théorie du Potentiel (14e année: 1970/71) 10633
Séminaire de Théorie du Potentiel (15e année: 1972) 10634

31C10 *Pluriharmonic and plurisubharmonic functions* [*See also* 32F05.]

Rudin, Walter (10673)

31C15 *Potentials and capacities*

Adams, R. D.; et al. (915)
Aronszajn, N.; et al. (915)
Hanna, M. S.; et al. (915)
Imai, Hideo 5485
Mahmud-zade, R. A. 577
Ridder, J. (5416)

31C25 *Dirichlet spaces*

Ancona, Alano (3381)
Andersson, Lars-Erik 5486
Feyel, Denis; et al. 7820
Forst, G. 7821
Isac, George 13103
de la Pradelle, Arnaud; et al. 7820
Collection: Brelot, Marcel 5486

31C99 *None of the above, but in this section*

Deny, Jacques 7822
Faraut, Jacques (5750)
Kwon, Y. K.; et al. (13780a-b)
Nakai, Mitsuru; et al. (13781)
Sario, L.; et al. (13780a-b,13781,13784)
Taylor, J. C. 2999
Wang, Cecilia; et al. (13784)
Séminaire Bourbaki (1971/1972: Exposés 400-417) 7822
Séminaire de Théorie du Potentiel (15e année: 1972) 2999,(5750)

31D05 Axiomatic potential theory

Anandam, Victor 3000
Angar, Bernd (8232)
Barth, Thomas 10636
(Bertin, E. M. J.) 10639
Brelot, M. 7823
Constantinescu, Corneliu 3001
Dehen, Danièle (8891)
Fuglede, Bent (8557),10637
Guillerme, Jean 7824
Hansen, Wolfhard 3002
Hervé, Rose-Marie 7825
Hyvönen, Jaakko 7826
Laine, Ilpo 3003
Lukeš, Jaroslav; et al. 10638
Mastrangelo-Dehen, Michèle 10639
(Mokobodzki, G.) 10636
Mokobodzki, Gabriel 7827
Netuka, Ivan; et al. 10638
Ow, Wellington H. 5487
Taylor, John C. (8892)
Tissier, Gilles 7828
Walsh, Bertram 7829
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 7827,10637
Collection: Bompiani, Enrico 7823
Brelot, Marcel 7825
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 7829
Séminaire de Théorie du Potentiel (14e année: 1970/71) (8892),10639
Séminaire de Théorie du Potentiel (15e année: 1972) (8891),10636

32—XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES

Dineen, Seán (11058)

32-01 *Elementary exposition (collegiate level)*

Fritzsche, K.; et al. *3004
Grauert, H.; et al. *3004
Holmann, H. (*2949,*2950)
(Kaup, B.) (*2949,*2950)

32-02 *Advanced exposition (research surveys, etc.)*

Kohn, J. J. 3005
Complex analysis (Centro Internaz. Mat. Estivo, I Ciclo, Bressanone, 1973) 3005

32-03 *Historical*

Grothendieck, A. (2386)
(Hironaka, H.) (2386)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2386)

32-06 *Collections of papers; proceedings of conferences*

Analytic functions (*7760)
Conference on Analytic Functions, Sixth (Krakow, 1974) (*7760)
Conference on Singular Points of Hypersurfaces and *b*-Functions (Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) *578
b-Functions *578
Proceedings of the Conference on Analytic Functions, Sixth (Krakow, 1974) (*7760)
Singular points of hypersurfaces *578

32Axx Holomorphic functions of several complex variables

32A05 *Power series, series of functions*

Kleĭza, J. 10640
Odoni, R. W. K. (12715)

32A07 *Special domains (Reinhard, Hartogs, tube domains, etc.)*

Aĭzenberg, L. A.; et al. (3009)
Carmichael, Richard D. (3010)
Dautov, S. A.; et al. (3009)
Fedorjuk, M. V. 3006
Hoffman, Alan J. 10641
Stoll, Manfred 5488
Sunada, Toshikazu 3007

32A10 *Holomorphic functions*

Chee, P. S. 10642
Janas, J. (8744)
Korányi, Adam (13154)
Naas, Josef; et al. (13270)
Rudin, Walter 10643
Šmatkov, A. A. 10644
Tutschke, Wolfgang; et al. (13270)
Weyland, Nicholas 10645
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10643
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 10642

32A15 *Entire functions*

Braĭčev, G. G. (5608)
Leont'ev, A. F. 5489
Martineau, André 10646
Mazumdar, N. C. 5490
Petrenko, V. P. 3008
Pisanelli, Domingos 10647
Ronkin, L. I. 579,13104)
Sadullaev, A. 7830
Servien, Claude (13546)
Sisarcick, W. C. 580
Williams, D. L. (8255)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10646
Functional analysis and applications (Proc. Sympos., 1972) 10647
Mathematical physics and functional analysis, No. V 579
Séminaire Pierre Lelong (Analyse), Année 1974/75 (13546)

32A20 *Meromorphic functions*

Gavrilov, V. I. 13105
Holdgrün, Horst S. 581,582
Kazarjan, M. V. (595)

32A25 *Integral representation and residue theory*

Aĭzenberg, L. A.; et al. 3009,13106
Bakunin, G. N. 10648

32A25 *Continued*

Braun, R. B.; et al. 13106
Dautov, Š. A.; et al. 3009
Kakičev, V. A.; et al. 13107
Le Din' Zon; et al. 13107
Raby, Gilles (7838)

32A30 *Other generalizations of function theory of one complex variable* [*For functions of several hypercomplex variables, see* 30A97.]

Asada, Akira 7833
Kurth, Rudolf (10717)
Napalkov, V. V. 583

32A99 *None of the above, but in this section*

Carmichael, Richard D. 3010
Horowitz, Charles 7831
Sattarova, M. K. 7832
Tsuno, Yoshimichi (5599)

32Bxx Local analytic geometry (See also 13—XX and 14—XX.)

32B05 *Analytic algebras and generalizations, preparation theorems*

Bochnak, Jacek (13111)
Childress, C. L. 5491
Łojasiewicz, S. 585
Mather, J. N. 587
Nirenberg, L. 586
Pisanelli, Domingos (10647)
Risler, Jean-Jacques 13108
Šošitaĭšvili, A. N. 5492
Functional analysis and applications (Proc. Sympos., 1972) (10647)

32B10 *Germs of analytic sets*

Ephraim, Robert (10662)
King, Henry C. (13114)
Tougeron, Jean-Claude 3011

32B20 *Semi-analytic sets*

Darchen, Jean-Claude 10649
Fukuda, Takuo 10650
Galbiati, Margherita (5493),7834
Łojasiewicz, S. 13109
Mostowski, Tadeusz (307)
Trotman, D. J. A. (11381)
Varčenko, A. N. (12763)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13109
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (12763)

32Cxx General theory of analytic spaces

32C05 *Real-analytic manifolds, real-analytic spaces*

Andreotti, Aldo (*1311)
de Bartolomeis, Paolo 7835,13110
Bochnak, Jacek 13111
Brieskorn, Egbert (5227)
Chern, S. S.; et al. 13112
Galbiati, Margherita 5493,(7834),10651
Giannico, N.; et al. 10652
Kashiwara, Masaki; et al. 13113
Kawai, Takahiro; et al. 13113
King, Henry C. 13114
Moser, J. K.; et al. 13112
Nunemacher, Jeffrey (10670)
Risler, Jean-Jacques (5226,12761,13108)
Shiota, Masahiro (3742)
Tognoli, A. 3012,10653,10654
Tognoli, A.; et al. 10652
Trotman, D. J. A. (11381)
Séminaire Pierre Lelong (Analyse), Année 1974/75 10654,(12761)
Singularités à Cargèse (1972) (5227)
Singularities of analytic spaces (Centro Internaz. Mat. Estivo, II Ciclo, Bressanone, 1974) 3012,10653
Whittemore Lectures in Mathematics, 1974 (*1311)

32C10 *Complex manifolds* [*For almost complex manifolds, see* 53C15.]

Bedford, Eric; et al. (6214)
Brasselet, Jean-Paul 7836
Chen, Bang Yen; et al. (3635)
Gauduchon, Paul (10688)
Kato, Masahide (594)
Lue, Huei Shyong; et al. (3635)
Matsushima, Yozo (6176)
Rea, C. 13115
Sommese, Andrew John (13778)
Suwa, Tatsuo; et al. (6214)
Vansnick, Jean-Claude (11233)
Yang, Paul C. 7837

32C15 *Complex spaces*

Forster, Otto (7852)
Sommese, Andrew J. (13147)
Suzuki, Tetsutaro; et al. (589)
Takijima, Kunio; et al. (589)
Tancredi, Alessandro (13153)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (7852)

32C25 *Analytic subsets and submanifolds*

Chollet, Anne-Marie 588
Gorban', A. N.; et al. 5494
Kato, Mitsuyoshi (6149)
Lawson, H. Blaine, Jr. 13116
Melamed, V. B.; et al. 5494
Raby, Gilles 7838
Seabury, Chester C. 7839
Simha, R. R. 10655
Skoda, H. 7840
Smagin, S. A. (5610)
Suzuki, Tetsutaro; et al. 589
Takijima, Kunio; et al. 589
Manifolds-Tokyo 1973 (6149)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 13116
Séminaire Pierre Lelong (Analyse), Année 1972-1973 7840

32C30 *Integration on analytic sets and spaces*

Lawson, H. Blaine, Jr. (13116)
Lelong, Pierre (2601)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (13116)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) (2601)

32C35 *Analytic sheaves and cohomology groups* [*See also* 18F20,55B30.]

Andreotti, Aldo; et al. 3013,13117
Badji, Chérif (601a-c)
Bănică, Constantin; et al. 3013
Coen, Salvatore 5495
Douady, Adrien 10656
Ferrari, Aldo 3014
Flondor, Paul 13118
Golovin, V. D. 13119
Kas, Arnold; et al. 13117
Kashiwara, M. (3770)
Kashiwara, Masaki; et al. (8747)
Kawai, Takahiro; et al. (8747)
Kiehl, Reinhardt 13120
Köpf, Ursula 10657
Lorenzani, Massimo; et al. (10249)
Maschietti, Antonio; et al. (10249)
Naruki, Isao 13121
Poly, J.-B. (13138)
Ramis, Jean-Pierre 10658
Sato, Mikio; et al. (8747)
Silva, Alessandro 3015
Siu, Yum Tong 3016
Stehlé, Jean-Luc 7841,7842
Suominen, Kalevi (2651)
Tsuboi, S. 3017
Watanabe, Kiyoshi (5500)
Zame, William R. (13136)
Colloque International C.N.R.S. sur les Équations aux Dérivées Partielles Linéares (Orsay, 1972) (3770)
Complex analysis (Centro Internaz. Mat. Estivo, I Ciclo, Bressanone, 1973) 3016
Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973) 10658
Hyperfunctions and pseudo-differential equations (8747)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 10656
Séminaire Pierre Lelong (Analyse), Année 1967-1968 (13138)
Symposium on Complex Manifolds (Kyoto, 1974) 13121

32C40 *Singularities*

A'Campo, Norbert (12925)
Arnol'd, V. I. (8701)
Becker, Joseph; et al. 3018
Berthelot, Pierre 3019
Briançon, J.; et al. 7843,13122,13123
Brieskorn, Egbert 10660
Deligne, Pierre 10659
Demazure, Michel 13124
Ephraim, Robert 10662,13125
Gabrièlov, A. M.; et al. 13126
Gibson, C. G. 3020
Henry, Jean-Pierre; et al. 5496,13123
Kashiwara, M. 590
Kato, Mitsuyoshi (6149)
Komlenko, Ju. V. 7844
Kušnirenko, A. G.; et al. 13126
Lacomba Zamora, Ernesto A. 591
Ljaško, O. V. 3021
Looijenga, Eduard 10661
Malgrange, B. 7845
Miller, John L. (6148)
Milnor, John (6169)
Morita, S. (1242)
Naruki, Isao (13121)
Randell, Richard C. (1270)
Riemenschneider, Oswald 3022
Ronga, Felice (2655)
Scharf, Alois (*13920)
Speder, J.-P.; et al. 7843,13122,13123
Stutz, John; et al. 3018
Teissier, Bernard 3023,(10247)
Teissier, Bernard; et al. 5496
Todorov, A. N. 10259
Tognoli, A. (10653)
Trautmann, Günther 592
Varčenko, A. N. (12763,12764)
Vohmann, Horst Dieter *593
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (10247)
Fonctions de plusieurs variables complexes, II (Sém. François Norguet, Janvier 1974-Juin 1975) 5496
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) 7845
Geometry of manifolds (Proc. Sympos., R.I.M.S., Kyôto Univ., Kyôto, 1972) (1242)
Knots, groups and 3-manifolds (Papers dedicated to the memory of R. H. Fox) (6169)
Manifolds-Tokyo 1973 (6149)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (12763)
Quelques problèmes de modules (Séminaire, 1971-1972) 3019,3023
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 10660
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 13124
Séminaire Goulaouic-Lions-Schwartz 1974-1975: Équations aux dérivées partielles linéaires et non linéaires 590
Singularities of analytic spaces (Centro Internaz. Mat. Estivo, II Ciclo, Bressanone, 1974) (10653)
Symposium on Complex Manifolds (Kyoto, 1974) (13121)

32C45 *Modifications, resolution of singularities* [*See also* 14E15.]

Hironaka, Heisuke 13127
Kato, Masahide 594
Tognoli, A. (10654)
Tsuboi, S. (3017)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13127
Séminaire Pierre Lelong (Analyse), Année 1974/75 (10654)

32C99 *None of the above, but in this section*

Mallios, Anastasios (8291)
Functional analysis and its applications (Internat. Conf., Madras, 1973) (8291)

32Dxx Analytic continuation

32D05 *Domains of holomorphy*

Dloussky, Georges 10663
Schottenloher, Martin 3024
Proceedings on Infinite Dimensional Holomorphy 3024

32D10 *Envelopes of holomorphy*

Greenfield, Stephen J. 7846
Kazarjan, M. V. 595
Širinbekov, M. (7857)
Zaharjuta, V. P. 13128
Proceedings on Infinite Dimensional Holomorphy 7846

32D15 *Continuation of analytic objects*

Ahiezer, N. I.; et al. 7847
Badji, Chérif 7848
Bros, J.; et al. 7849
Burns, Daniel, Jr.; et al. (3028)
Chee, P. S. 10664
Čirka, E. M. (598)
Coeuré, Gérard 7850
Downarowicz, Małgorzata 7851
Epstein, H.; et al. 7849
Glaser, V.; et al. 7849
Kaneko, Akira (700)
Kawai, Takahiro (11405)
Kazarjan, M. V. (595)
Marinov, M. S. 5497
Mazet, Pierre (13145)
Ronkin, L. I.; et al. 7847
Siciak, J. 10665
Stora, R.; et al. 7849
Stormark, Olle 13129
Sout, Edgar Lee; et al. (3028)
Hyperfunctions and theoretical physics (Rencontre, Nice, 1973; dédié à la mémoire de A. Martineau) 7849
Séminaire Pierre Lelong (Analyse), Année 1969 7850
Séminaire Pierre Lelong (Analyse), Année 1974/75 (13145)

32D20 *Removable singularities*

Bartenwerfer, Wolfgang 10666
Darchen, Jean-Claude 10649
Harvey, F. Reese; et al. 13130
Lawson, H. Blaine, Jr.; et al. 13130
Seabury, Chester C. (7839)

32D99 *None of the above, but in this section*

Tsuno, Yoshimichi (5598)

32Exx Holomorphic convexity

32E05 *Holomorphically convex complex spaces, reduction theory*

Coeuré, G. 7853
Functional analysis and applications (Proc. Sympos., 1972) 7853

32E10 *Stein spaces, Stein manifolds*

Bingener, Jürgen 10667
Carlson, James A.; et al. 596
Cassa, Antonio 597,13131
Fornaess, John Erik 5498
Forster, Otto 7852
Harvey, Reese; et al. 596
Le Barz, P. 5499
Markoe, Andrew 3026
Sandroni, Alba (3029)
Schneider, Michael 7854
Watanabe, Kiyoshi 5500,7855
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 7852

32E15 *Runge pairs*

Markoe, Andrew (3026)

32E20 *Polynomial convexity*

Byčkov, S. N. 10668

32E25 *Algebras of holomorphic functions*

Escassut, Alain 3027,13132
Henkin, G. M. (3378)
Kronstadt, Eric P. 5501
Langmann, Klaus 13133,13134
Mitjagin, B. S.; et al. (8253)
Nagel, Alexander; et al. 13135
Pełczyński, A.; et al. (8253)
Rudin, Walter; et al. 13135
Sibony, N.; et al. 7856
Stout, Edgar Lee (11066)
Wermer, J.; et al. (7856)
Zame, William R. 13136

32E30 *Holomorphic and polynomial approximation*

Čirka, E. M. 598,(5473)
Fornaess, John Erik 10669
Gorin, E. A.; et al. (8294)
Hortmann, Michael (10674)
Karahanjan, M. I.; et al. (8294)
Nunemacher, Jeffrey 10670
Stolzenberg, Gabriel 599
Stout, Edgar Lee 10671

32Fxx Geometric convexity

32F05 *Plurisubharmonic functions and generalizations* [*See also* 31C10.]

Aĭzenberg, L. A.; et al. (3009)
Dautov, S. A.; et al. (3009)
Greene, R. E.; et al. 10672
Lelong, Pierre 600
Rudin, Walter 10673
Širinbekov, M. 7857
Wu, Hung Hsi; et al. 10672
Yau, Shing Tung 5502
Séminaire Pierre Lelong (Analyse), Année 1971-1972 600

32F10 *q-convexity, q-concavity*

Andreotti, A. (13137)
Fritzsche, Klaus 7858
Hill, C. Denson (13332)
Hortmann, Michael 10674
Ramis, Jean-Pierre (10658)
Rapp, A. 5503
Takeuchi, Shigeru (7877)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13137)
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) (13332)
Fonctions de plusieurs variables complexes (Sém. François Norguet, 1970-1973) (10658)
Séminaire Pierre Lelong (Analyse), Année 1974/75 5503

32F15 *Pseudoconvex domains*

Andreotti, A. (13137)
Badji, Chérif (7848)
Burns, Daniel, Jr.; et al. 3028
Chollet, Anne-Marie (588)
Derridj, Maklouf; et al. (1312)
Fornaess, John Erik (10669)
Landucci, Mario 5504
Leiterer, Jürgen (607,5510)
Lelong, Pierre 7859
Pflug, Rolf Peter 7860
Poly, J.-B. 13138
Rea, Claudio (10676)
Stout, Edgar Lee (10671)
Sout, Edgar Lee; et al. 3028
Tartakoff, David S.; et al. (1312)
Watanabe, Kiyoshi (7855)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13137
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) 7859
Séminaire Pierre Lelong (Analyse), Année 1967-1968 13138

32F99 *None of the above, but in this section* [*For the theory of the* $\bar{\partial}$-*Neumann problem on pseudoconvex domains, see* 35N15.]

Badji, Chérif 601a-c
Burns, D., Jr.; et al. (7875)
Raboin, Pierre (6181)
Shnider, S.; et al. (7875)

32Gxx Deformations of analytic structures

32G05 *Deformations of complex structures* [*See also* 13D10,16A58,58H05.]

Akao, Kazuo 602a-b
Kalka, M. (604)
Morrow, James A. 5505
Palamodov, V. P. 13139
Sernesi, Edoardo 10675
Sundararaman, D. (3030)
Wright, Marcus W. (7863)
Proceedings of Liverpool Singularities Symposium, II (1969/1970) 5505
Symposium on Complex Manifolds (Kyoto, 1974) 602b

32G10 *Deformations of submanifolds and subspaces*

Rea, Claudio 10676
Sandroni, Alba 3029
Trautmann, Günther (592)

32G13 *Analytic moduli problems* [*For algebraic moduli problems, see* 14D20.]

Akao, Kazuo (602b)
Horikawa, Eiji (12789)
Sernesi, Edoardo (10675)
Sundararaman, D. 3030
Zak, F. L. (12770)
Symposium on complex manifolds (Kyoto, 1974) (602b)

32G15 *Moduli of Riemann surfaces, Teichmüller theory* [*See also* 30A46.]

Bers, L. 10677
Earle, Clifford J.; et al. 13140
Engber, Michael 3031,7861
Gramain, André (13945)
Kra, Irwin; et al. 13140
Kuribayashi, Akikazu (5243),13141
Marden, Albert (540)
Masur, Howard 5506
(Novodvorskiĭ, M. E.) 10677
Sato, Hiroki (5463)
Wason, Judith C. 5507
Wolpert, Scott 10678
Advances in complex function theory (Proc. Sem., Univ. Maryland, College Park, Md., 1973-1974) (540)
Collection: Petrovskiĭ, Ivan Georgievič (1901-1973) (I) (10677)
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (13945)

32G20 *Period matrices*

Kuribayashi, Akikazu (13141)

32G99 *None of the above, but in this section*

Horikawa, Eiji 5508

32Hxx Analytic mappings

Kobayashi, Shoshichi 3032

32H05 *Representative domains*

Oleĭnik, O. A. 3148
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 3148

32H10 *Bergman kernel function*

Ramadanov, Ivan-Pierre 603
Suita, Nobuyuki; et al. 13142
Yamada, Akira; et al. 13142

32H15 *Invariant metrics and pseudodistances*

Campbell, L. A.; et al. 13143
Chollet, Anne-Marie (588)
Hahn, Kyong T. 5509
Howard, A.; et al. 13143
Kalka, M. 604
Kobayashi, Shochichi 7862
Ochiai, T.; et al. 13143
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 7862

32H20 *Hyperbolic complex manifolds*

Eastwood, Alan 3033
L'vovskiĭ, N. N. 13144
Wong, B. (13151)
Wright, Marcus W. 7863
Yang, Paul C. (7837)

32H25 *Picard type theorems and generalizations*

Chern, Shiing Shen 10679
Gauthier, 7864
L'vova, S. V. 3034
L'vovskiĭ, M. N. 7865
Niino, Kiyoshi 3035
Noguchi, Junjiro 10680,10681
Petridis, N. C. (13814)
Roos, Guy 10682
Sadullaev, A. 3036
Sakai, Fumio 10683,10684
Sunada, Toshikazu 7866
Differential geometry (in honor of Kentaro Yano) 10679
Mathematical physics and functional analysis, No. V 3034
Séminaire Pierre Lelong (Analyse), Année 1967-1968 10682

32H99 *None of the above, but in this section*

Alexander, H. 10685
Henaut, Alain 7867
Horikawa, Eiji (5508)
Mazet, Pierre 13145
Fonctions de plusieurs variables complexes, II (Sém. François Norguet, Janvier 1974-Juin 1975) 7867
Séminaire Pierre Lelong (Analyse), Année 1974/75 13145

32Jxx Compact analytic spaces (For Riemann surfaces, see 14Hxx, 30A46.)

32J10 *Algebraic dependence theorems*

Koshiba, Yôichi 10686

32J15 *Compact surfaces* [*See also* 14Jxx.]

Inoue, Masahisa (5244)
Moĭšezon, B. G. 13146
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13146
Symposium on Complex Manifolds (Kyoto, 1974) (5244)

32J25 *Transcendental methods of algebraic geometry* [*See also* 14C30.]

Corualba, Maurizios; et al. (7459)
Del Centina, Andrea; et al. 10687
Gauduchon, Paul 10688
Griffiths, Phillip A. (2652)
Griffiths, Phillip A.; et al. (7459),7868
Krasnov, V. A. 10689
Schmid, Wilfried; et al. 7868
Ueno, Kenji 605
Zappa, Paolo; et al. 10687
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (2652)
Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29) (7459)
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) 7868
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 707
Symposium on Complex Manifolds (Kyoto, 1974) 605

32J99 *None of the above, but in this section*

Horikawa, Eiji (5508)
Sommese, Andrew J. 13147

32Kxx Generalizations of analytic spaces

32K05 *Banach analytic spaces* [*See also* 58Bxx.]

Bartenwerfer, Wolfgang (10666)
Gorban', A. N.; et al. (5494)
Melamed, V. B.; et al. (5494)
Vigué, Jean-Pierre (*7874)

32K10 *Nonarchimedean analytic spaces*

Köpf, Ursula (10657)

32K15 *Differentiable functions on analytic spaces, differentiable spaces* [*See also* 58C25.]

Chern, S. S.; et al. (13112)
Moser, J. K.; et al. (13112)
Reichard, Klaus 7869

32K99 *None of the above, but in this section*

Burns, D., Jr.; et al. (7875)
Shnider, S.; et al. (7875)

32Lxx Holomorphic fiber spaces (See also 55Fxx.)

32L05 *Holomorphic fiber bundles and generalizations*

Atiyah, M. F.; et al. 7870
Badji, Chérif (7848)
Gauduchon, Paul 13148
Hano, Jun-ichi 7872
Kimura, Tosihusa (7797)
Lax, R. F. 13149
LeBarz, P. (5499)
Leiterer, Jürgen 607,5510,5511
Matsunaga, Hiromichi 606
Matsushima, Yozo *608,7871
Newstead, P. D. (7468)
Rees, E.; et al. 7870
Sibner, L. M.; et al. 13150
Sibner, R. J.; et al. 13150
Sommese, Andrew John (13778)
Wong, B. 13151
Contributions to analysis (a collection of papers dedicated to Lipman Bers) 13150
Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) (7797)

32L10 *Sheaves and cohomology of sections of holomorphic vector bundles* [*See also* 18F20,55B30.]

Gauduchon, Paul (10688)
Malliavin-Brameret, Marie-Paule; et al. 13152
Malliavin, Paul; et al. 13152
Tsujishita, Toru (8662)
Non-commutative harmonic analysis (Actes Colloq., Marseille-Luminy, 1974) 13152
Symposium on Complex Manifolds (Kyoto, 1974) (8862)

32L99 *None of the above, but in this section*

Chern, Shiing Shen 609
Kreĭn, S. G.; et al. (3741)
Kučment, P. A.; et al. (3741)
Pankov, A. A.; et al. (3741)
Zaĭdenberg, M. G.; et al. (3741)
Collection: Albert, Abraham Adrian 609

32Mxx Complex spaces with a group of automorphisms

32M05 *Complex Lie groups, automorphism groups of complex spaces* [*See also* 22E10.]

Kaup, Wilhelm; et al. 10690
Namba, Makoto 5512
Reichard, Klaus (7869)
Sudo, Masaki (615)
Tancredi, Alessandro 13153
Upmeier, Harald 3037
Upmeier, Harald; et al. 10690
Vigué, Jean-Pierre 7873,*7874
Wong, B. (13151)
Symposium on Complex Manifolds (Kyoto, 1974) 5512

32M10 *Homogeneous complex manifolds* [*See also* 57F15.]

Ahiezer, D. N. 610
Burns, D., Jr.; et al. 7875
Gorbacevič, V. V. (1271)
Kimel'fel'd, B. N. 611
Malyšev, F. M. 7876
Popov, A. M. (12971)
Rasevskiĭ, P. K. 10691
Sakane, Yusuke 10692
Scheuneman, John 612
Shnider, S.; et al. 7875
Takeuchi, Shigeru 7877
Yagi, Katsumi (13771)

32M15 *Hermitian symmetric spaces, bounded symmetric domains* [*See also* 22E10,22E40,53C35,57F15.]

Debiard, Amédée 3038
Del Centina, Andrea; et al. (10687)
Ise, Mikio 7878
Jaffee, Harris A. 613
Korányi, Adam 13154
Korányi, Adam; et al. 10693
Nakagawa, Hisao; et al. 5513
Rossi, H.; et al. (10504)
Satake, I. 614
Stoll, Manfred (5488)
Sudo, Masaki 615
Sunada, Toshikazu (7866)
Takagi, Ryoichi; et al. 5513
Takeuchi, Masaru 616
Vági, Stephen; et al. 10693
Vergne, M.; et al. (10504)
Vigué, Jean-Pierre (*7874)
Zappa, Paolo; et al. (10687)

32M99 *None of the above, but in this section*

Namba, Makoto 3039

32Nxx Automorphic functions (See also 10Dxx, 20H10, 22E40, 30A58.)

32N05 *General theory of automorphic functions of several complex variables*

Del Centina, Andrea; et al. (10687)
Freitag, Eberhard 617
Zappa, Paolo; et al. (10687)
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) 617

32N10 *Automorphic forms*

Garland, Howard (471)
Harder, G. (12976,12977)
Resnikoff, H. L. 618
Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) (471,12976)
Lie groups and their representations (Proc. Summer School of the Bolyai János Math. Soc., Budapest, 1971) (12977)

32N15 *Automorphic functions in symmetric domains*

Tsao, Liang Chi (7388)

33—XX SPECIAL FUNCTIONS (33—XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42A52. Expansions in orthogonal functions are treated in 42A56.)

(Abramowitz, Milton) (4033,4034,4036,4037,4039-4041)
Antimirov, M. Ja. (13315)
Björk, Harry (4033)
Delsarte, Philippe (107)
Denman, H. H.; et al. (4034)
Eilbeck, J. C. 3040
Emaus, B. D.; et al. (4034)
(Erdélyi, A.) 3040-3045,(4051-4054)
Fettis, Henry E. 3041,(4051)
Guttman, Lester (4036)
Katzin, Martin 3042,3046,(4052)
Kölbig, K. S. 3043
(Magnus, W.) 3040-3047,(4051-4054)
McDowell, Robin S. (4037)
Nash, J. C. (4053)
(Oberhettinger, E.) 3047
(Oberhettinger, F.) 3040-3046,(4051-4054)
Satoh, H. 3044
Skovgaard, Ove 3045,3046
(Soni, R. P.) 3046,3047
(Stegun, Irene A.) (4033,4034,4036,4037,4039-4041)
Stein, Josef (4039)
Strecok, Anthony J. (4040)
(Tricomi, F. G.) 3040-3045,(4051-4054)
Wood, Van E. (4041,4054)
Formulas and theorems for the special functions of mathematical physics 3047
Handbook of mathematical functions with formulas, graphs, and mathematical tables (4033,4034,4036,4037,4039-4041)
Latvian mathematical yearbook, 17 (13315)
Table errata 3040-3047,(4033, 4034,4036,4037, 4039-4041,4051-4054)
Tables of integral transforms, Vol. I (4051)

33-02 *Advances exposition (research surveys, etc.)*

Gasper, George 619
Theory and application of special functions (Proc. Advanced Sem., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975) 619

33-06 *Collection of papers; proceedings of conferences*

(Ludwig, Donald) (*12426)
(Olver, Frank W. J.) (*12426)
Special functions and wave propagation (*12426)
Studies in applied mathematics, 6 (*12426)
Symposium on Special Functions (SIAM National Meeting, Washington, D. C., 1969) (*12426)
Symposium on Wave Propagation (SIAM National Meeting, Washington, D. C., 1969) (*12426)
Wave propagation (*12426)

33A10 *Exponential and trigonometric functions*

Burniston, E. E.; et al. 7879
Grosjean, C. C. 3048,3049
Siewert, C. E.; et al. 7879

33A15 *Gamma and beta functions*

Bank, Steven B.; et al. 7880
Grosjean, C. C. (3048,3049)
Kairies, Hans-Heinrich (13048)
Kaufman, Robert P.; et al. 7880
Matsunawa, T. 10694
Memnonov, V. P. 13155
Saxena, R. K.; et al. (13502)
Selliah, J. B. 3050
Sethi, P. L.; et al. (13502)

33A20 *Error function, probability integral*

Blair, J. M.; et al. (9047)
Chelazzi, Mirko (9048)
Edwards, C. A.; et al. (9047)
Johnson, J. H.; et al. (9047)

33A25 *Elliptic functions and integrals*

(Byrd, P. F.) (4042)
Eckhardt, Ulrich (9049)
Fettis, Henry E. (4042)
(Friedman, M. D.) (4042)
Glasser, M. L. 13156
Schett, A. (11736)
Table errata (4042)

33A30 *Hypergeometric functions of one and several variables, generalizations*

Abiodun, R. F. A.; et al. 7889
d'Adda, A.; et al. 620
Aggarwala, Indira; et al. 13157
Agrawal, B. M.; et al. 7882,7883
d'Auria, R.; et al. 620
Battig, A.; et al. (8193)
Chaurasia, V. B. L. 10695
Dahiya, R. S. 3051
Deshpande, V. L. 7884,10696
Exton, Harold 10697,10698,*10699
de Galindo, M. Santana; et al. 7885
Garg, O. P.; et al. (13481)
Goyal, A. N.; et al. 13157
Gupta, K. C.; et al. (13481)
Kalla, S. L.; et al. 7885,(8193,13481)
Kovalenko, A. D. (*12463)
Manglik, R. C.; et al. 7882
Modi, G. C.; et al. 13161
Neckermann, Ludwig 13158
Panda, R. 7886
Pathan, M. A. 13159
(Pisarenko, G. S.) (*12463)
Pradhan, K. M. 3052
Riekstiņa, V. 13160
Ruben, Harold 7881
Saxena, R. K.; et al. 13161
Shah, Manilal 7887,13162
Sharma, B. L. 5514,7888,10700
Sharma, B. L.; et al. 7889
Shukla, D. P. 5515
Simary, M. A. 13163
Singh, Bhagat 7890
Singhal, B. M. 13164
Singhal, B. M.; et al. 7883
(Slater, L. J.) *10699
Srivastava, H. M. 3053
Sud, Krishan; et al. 621
Vasishta, S. K. 10701
Wright, L. E.; et al. 621
Latvian mathematical yearbook, 17 13160

33A35 *E-functions, G-functions, H-functions, etc.*

Abdel Malak, S.; et al. 7900
Anandani, P. 7891
Banerji, P. K.; et al. 7892
Chaurasia, V. B. L. 13165
Dhawan, G. K.; et al. 3054
Garg, Om Prakash 7893,10702,13166-13168
Goyal, A. N.; et al. 10704
Goyal, S. P.; et al. 3057
Gulati, H. C. 13169
Gupta, K. C.; et al. (10993)
Gupta, S. C. 7894
Handa, S.; et al. (10993)
Hora, N. S. 10703,13170
Kalla, S. L.; et al. (10993)
Khadia, S. S.; et al. 10704
Mathur, B. L.; et al. 7895
Munot, P. C.; et al. 7895
Paliwal, D. D.; et al. 3054
Panda, Rekha; et al. 7902
Parihar, C. L. 7896
Podolski, Horst (6348)
Raina, R. K. 13171
Saxena, R. K.; et al. 7892
Shah, Manilal 3055,(7806),7897-7899,10705
Shrivastava, B. M.; et al. 13172
Simary, M. A.; et al. 7900
Singh, Bhagat 622
Singh, F.; et al. 13172
Singhal, B. M. 7901
Soni, N. K. 3056
Srivastava, H. M.; et al. 7902
Srivastava, Sunil Kumar 10706
Vasishta, S. K.; et al. 3057

33A40 *Cylindrical functions, Bessel functions*

(Askey, R.) 5517
Benický, Marián 13173
Chatterjea, S. K. 7903
Ciric, I. R. 7904
Davis, Basil; et al. 5516
Hadži, P. I. 623
Hayek, Nácere 7905
Hoggatt, V. E., Jr.; et al. 5516
Holt, R. 5517
Johri, R. S. 10707
Keam, R. F. 13174
McCann, Roger C. 10708
Okui, Shigehiko 7906
Popov, V. E.; et al. 7907
Salçev, L. Z.; et al. 7907
Sookne, David J. (9052-9055)
Spigler, R. 10709
Scientific Conference, Fourth, College of Transport Engineering, Žilina, Section 1 13173
Spectrum of mathematics (Essays presented to H. G. Forder) 13174

33A45 *Spherical functions (Legendre polynomials and functions, spherical harmonics, ultraspherical polynomials*

Anandani, P. 7908
Gilbert, John E. (7939)
Holševnikov, K. V. 10710
Roetman, E. L. 624
Schach, S. R. 10711

33A50 *Gegenbauer functions*

Durand, Loyal; et al. 10712
Fishbane, Paul M.; et al. 10712
Lewanowicz, S. (6527)
Simmons, L. M., Jr.; et al. 10712

33A55 *Lamé, Mathieu, spheroidal wave functions*

MacPhie, R. H.; et al. (6459)
Sinha, B. P.; et al. (6459)

33A60 *Other wave functions*

Hargrave, B. A. 7910
Hargrave, B. A.; et al. 7909
Sleeman, B. D.; et al. 7909

33A65 *Orthogonal special functions and polynomials (Čebyšev, Hermite, Jacobi, Laguerre, etc.)*

Allaway, Wm. R. 5518
Arscott, F. M. 625
Benický, Marián 3058
Brenner, J. 3059
Brown, James Ward 626
Carlitz, L.; et al. 7911
Cohen, M. E. 7912
Freud, Géza 7913
Manocha, H. L.; et al. 7914
Maqusi, M. (7096)
Pearce, C. E. M.; et al. (12811)
Potts, R. B.; et al. (12811)
Půchovský, František 13175
Rao, A. B.; et al. 7914
Ricci, Paolo Emilio 5519
Schach, S. R. 7915
Schmeißer, Gerhard 5520
Shrivastava, B. M. 13176
Sprinkhuizen-Kuyper, I. G. (3278)
Srivastava, H. M. 10713
Srivastava, H. M.; et al. 7911
Zucker, I. J. (9506,9507)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 625
Proceedings of the Conference on the Constructive Theory of Functions (Approximation Theory) (Budapest, 1969) 3059

33A70 *Other special functions*

Akopjan, S. A.; et al. (848)
Brown, James Ward; et al. 13177
Dube, Arun Prabha (8177)
Hačatrjan, I. O.; et al. (848)
Howard, F. T. (5444)
Kairies, Hans-Heinrich (13048)
Karande, B. K.; et al. (110)
Kuczma, Marek; et al. 13177
Pozin, S. M. 10714
Saff, E. B.; et al. 3060
Thakare, N. K.; et al. (110)
Varga, R. S.; et al. 3060
Zaheer, Neyamat 7916

33A75 *Special functions and Lie groups*

Biedenharn, L. C.; et al. 627
Clerc, Jean Louis (13476)
Gelbart, Stephen S. (13474)
Gross, Kenneth I.; et al. (3305)
Holman, W. J., III; et al. 627
Kunze, Ray A.; et al. (3305)
Louck, J. D.; et al. 627

34—XX ORDINARY DIFFERENTIAL EQUATIONS

(Fomin, S. V.) *3061,*3062
Kamke, E. *3061,*3062
(Mitrinović, D. S.) *3061,*3062
(Rozov, N. H.) *3061,*3062
(Zbornik, J.) *3061,*3062

34-01 *Elementary exposition (collegiate level)*

Bauhoff, Eugen Peter 7917a-b
Tihonov, A. N.; et al. 628
Vasil'eva, A. B.; et al. 628
Volosov, V. M.; et al. 628

34-02 *Advanced exposition (research surveys, etc.)*

Hale, Jack K. *7918
Sell, George R. 7919
Ordinary differential equations: 1971 NRL-MRC Conference 7919

34-03 *Historical*

(Cartan, Henri) (*2409)
(Choquet, Gustave) (*2409)
(Denjoy, Arnaud) (*2409)
Lefschetz, Solomon 7920
Arnaud Denjoy: Évocation de l'homme et de l'oeuvre (*2409)
Bibliography: Denjoy, Arnaud (*2409)
Obituary: Denjoy, Arnaud (*2409)
Ordinary differential equations: 1971 NRL-MRC Conference 7920

34-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Chŏng, Chae Pu 7921,7922

34-06 *Collections of papers; proceedings of conferences*

Persidskiĭ, K. P. (*7182)
(Žautykov, O. A.) (*7182)

34Axx General theory

34A05 *Solutions in closed form, integration by quadratures, reduction of differential equations*

Garbaj, Zbigniew 10715
Kozak, P. P. 629

34A10 *Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions*

Derrick, W.; et al. 10716
Flores, Rubén; et al. (6112)
Gardner, Clifford 13178
Henry, Claude (2149)
Imaz, Carlos; et al. (6112)
Janos, L.; et al. 10716
Kljucancev, M. I. (13181)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (6112)
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) (2149)

34A20 *Differential equations in the complex domain* [*See also* 30A70.]

Bogačev, V. A. (564)
Hsieh, P. F. (10719)
Jablonskiĭ, A. I.; et al. 13179
Komlenko, Ju. V. (7844)
Korobeĭnik, Ju. F. 7923
Kurth, Rudolf 10717
Magnus, Wilhelm 7924
Nikolaus, Johannes 5521
Pisarenok, V. P.; et al. 13179
Remorini, Giovanna 13180
Schwarz, Binyamin 10718
Ordinary differential equations: 1971 NRL-MRC Conference (10719)

34A25 *Analytical theory: series, transformations, transforms, operational calculus, etc.* [*See also* 44-XX,47E05.]

Brédimas, Antoine (8272)
Brîndeu, L.; et al. (10251)
Diliberto, Stephen P. 7925
Gheorghiu, Oct. Em.; et al. (10251)
Hartman, Philip 630
Hsieh, P. F. 10719
Kinosita, Kiyosi (3738)
Kljucancev, M. I. 13181
Kuzmanov, L. N. 7926
Nourrigat, Jean (10905)
Rachůnková, Irena (13225)
Tacĭĭ, R. M. 7927
Takahashi, Ken-ichi 631
Collection of articles dedicated to Vasile Mioc on his seventieth birthday (10251)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 630
Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) 631
Ordinary differential equations: 1971 NRL-MRC Conference 7925,10719

34A30 *Linear equations and systems*

Azamov, A. 5522
Bannai, Eiichi; et al. 10720
Berkey, Dennis D. 5523
Freedman, H. I.; et al. 3063
Hsu, David Y. 3064
Krjukov, B. I.; et al. 5524
Madzagua, Z. K.; et al. 632
Mallet-Paret, J. J.; et al. 3063
Takano, Kyoichi; et al. 10720
Thelidze, M. G.; et al. 632
Zaborova, T. N.; et al. 5524
Questions on numerical mathematics and programming 632
Studies in contemporary problems of summability and approximation of functions, and their applications 5524

34A40 *Differential inequalities*

Chandra, Jagdish; et al. 7928,10721
Davis, Paul Wm.; et al. 7928,10721
Essén, Matts 13182
Fleishman, B. A.; et al. 7928
Pachpatte, B. G. 10722,13183
Rasmussen, David L. (490)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 7928
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13182

34A45 *Theoretical approximation of solutions*

Goroško, O. O.; et al. (4109)
Grečko, V. I. 3065
Hayashi, Kiyoshi; et al. 7929
Kaminogou, Takashi; et al. 7929
Kikuchi, Norio; et al. 7929
Krivcova, M. N. 5525
Küpper, Tassilo (4116)
Lakshmikantham, V.; et al. 10723
Mitchell, A. Richard; et al. 10723
Mosevich, Jack (14390)
Rudenko, A. K. 7930,7931
Schmidt, A. (3115)
Ševčenko, V. M. (4110)
Ševčenko, V. M.; et al. (4109)
Spasokukockaja, S. A. 633
Tempel', F. G. 3066
Asymptotic and qualitative methods in the theory of nonlinear oscillations (4109,4110)

34A99 *None of the above, but in this section*

Helton, Burrell W. 3067
Sentis, Rémi 13184

34Bxx Boundary value problems

34B05 *Linear equations*

Barnsley, M. F.; et al. 7932
Barr, Dennis; et al. 7933
Comstock, Craig; et al. 3068
Dunne, Patrick W.; et al. 3068
Everitt, W. N. 13185
Everitt, W. N.; et al. 13186
Giertz, M.; et al. 13186
Kovalenko, S. P.; et al. 5526
Kreith, Kurt 3069
Litvin, O. M.; et al. 5526
Miletta, Peter; et al. 7933
Robinson, P. D.; et al. 7932
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 13185,13186

34B10 *Multipoint boundary value problems*

Fešin, G. M.; et al. (1099)
Gustafson, G. B. 3070
Pelyh, V. A.; et al. (1099)
Skorobogat'ko, V. Ja.; et al. (1099)
Stanković, B. 5527
Mathematical methods, and physical and mechanical fields, No. 1 (1099)

34B15 *Nonlinear boundary value problems*

Agarwal, R. P.; et al. 5528
Baĭnov, D. D.; et al. 3071
Bespalova, S. A.; et al. 13187
Bradley, J. S. 634
Elcrat, Alan R. 635
Hayashi, Kiyoshi; et al. (7929)
Howes, F. A. 7934
Kaminogou, Takashi; et al. (7929)
Kiguradze, I. T. 5529
Kikuchi, Norio; et al. (7929)
Klokova, J.; et al. 13187
Konstantinov, M. M.; et al. 3071
Krishnamurthy, P. R.; et al. 5528
Myškis, A. D.; et al. 13188
Nur, H. S. (5570)
Peterson, Allan C. 5530
Roberts, S. M.; et al. (4122)
Ščerbina, G. V.; et al. 13188
Schmitt, Klaus 10724
Šehter, V. L. 13189
Shipman, J. S.; et al. (4122)
Šlahor, Ľudomír 13190
Troesch, B. A. (4121)
Zarubin, A. G. 13191
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 634
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10724
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) (5570),7934

34B20 *Weyl theory and its generalizations*

Anderson, Robert L. 7935
Brown, B. Malcolm; et al. 13192
Burton, T. A.; et al. 3072
Eastham, M. S. P. 5532,(10750)
Eastham, M. S. P.; et al. 5531
Evans, W. D.; et al. 636,13192
Everitt, W. N. 7936
Hinton, Don 13193
Knowles, Ian 13194
McLeod, J. B. 5533
Niessen, H. D.; et al. 10725,10726
Patula, W. T.; et al. 3072
Pleijel, Åke 10727
Schneider, A.; et al. 10725,10726
Thompson, M. L.; et al. 5531
Walker, Philip W. (5576)
Wong, James S. W. 10728
Zettl, Z.; et al. 636

34B20 *Continued*

Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 7936,10727,10728, 13192-13194
Spectral theory and asymptotics of differential equations (Proc. Conf., Scheveningen, 1973) 5532,5533,10725,10726

34B25 *Spectral theory, Sturm-Liouville, and scattering theory; eigenfunctions, eigenvalues, and expansions* [*See also* 42-XX,43-XX, 47Axx,47Bxx,47E05.]

Abramovich, Shoshana 10729
Alenicyn, A. G. 13195
Apyšev, O. D.; et al. 13196
Benzinger, Harold E. 3073,10730
Brodskiĭ, M. A. 7937
Brown, R. C. 10731
Browne, Patrick J. 10732
Buckholtz, J. D.; et al. 5534
Džrbašjan, M. M. 3074
Eastham, M. S. P. 5535
Eastham, M. S. P.; et al. 3075
Everitt, W. N. 7938
Everitt, W. N.; et al. 637
Faierman, M. 13197
Firsova, N. E. (5906)
Gentry, R. D.; et al. 10733,13198
Gilbert, John E. 7939
Glick, Noel 10734
Gol'dšteĭd, I. Ja.; et al. 7940
Gorbačuk, M. L.; et al. 10735
Gorbačuk, V. I.; et al. 10735
Harris, W. A., Jr.; et al. 10736
Hochstadt, Harry 13199
Hohrjakov, A. Ja. 7941
Hrabustovskiĭ, V. I. 3076
Kabak, G. I.; et al. 7942
Keller, Joseph B. 10737
Kemp, R. R. D.; et al. 3077
Kricever, I. M. (1298a-b)
Krishna Kumar, V.; et al. 637
Lando, Ju. K.; et al. 7942
Lee, S. J.; et al. 3077
Levitan, B. M. (10885)
Macdonald, Alan L. 3078
Magerramov, A. M. 13200
Mahar, T. J.; et al. 13201
Mamedov, S. G. (1945)
Martini, R. 13202
McLaughlin, Joyce R. 13203
Mihaĭlec, V. A. 3079
Molčanov, S. A.; et al. 7940
Molodenkov, V. A. 13204
Müller-Pfeiffer, E. 13205
Otelbaev, M. 10738
Otelbaev, M.; et al. 13196
Paladhi, Basudeb Ray 7943
Ratyni, A. K. 10739
Shaw, J. K.; et al. 5534
Sibuya, Y.; et al. 10736
Sleeman, B. D. 7944
Suvorčenkova, G. A. 3080
Travis, C. C.; et al. 10733,13198
Unsworth, K.; et al. 3075
Willner, B. E.; et al. 13201
Zelenko, L. B. 10740
Zettl, Anton 10741,10742
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10885)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 3075,7944
Mathematical physics and functional analysis, No. V 3076
Mathematical questions in the theory of wave propagation, 7 (5906)
Ordinary differential equations: 1971 NRL-MRC Conference 10736
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10730,10732,10741,13197
Spectral theory and asymptotics of differential equations (Proc. Conf., Scheveningen, 1973) 7938,13202
Studies of special questions in the theory of differential equations 13200

34B99 *None of the above, but in this section*

Bradley, J. S.; et al. 13206
Everitt, W. N.; et al. 13206
Trottenberg, Ulrich 10743
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10743

34Cxx Qualitative theory

34C05 *Limit cycles, singular points*

Bautin, A. N. 10744
Čerkas, L. A. 10745
Exton, Harold 10746
Gil'derman, Ju. I. 10747
Hukuhara, Masuo (3114)
Jarošević, G. O. 7945
Kaplunovič, Ja. Š. 7946,7947
Kulmatov, D. G. 3081
Polesja, I. V.; et al. 10748
Samoĭlenko, A. M.; et al. 10748
Stein, Junior 5536
Thomas, Johannes 13207
Turaev, K. 3082
Turner, John Wm. 7948
Žilevič, L. I. 10749
Collection: Sansone, Giovanni (3114)
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 3082

34C10 *Zeros, disconjugacy, growth, boundedness, oscillation and comparison of solutions*

Atkinson, F. V. 13208
Baker, John W. 7949
Barbălat, I. 7950
Bushard, Louis B. 3083
Butler, G. J. 13209
Ch'oe, Sun Ch'ŏl 7952
Conley, C. 7951
Diaz, J. B.; et al. 638
Eastham, M. S. P. 10750
Easwaran, S. 13210
Gentry, R. D.; et al. (13198)
Gregory, J.; et al. (11008)
Gregus, M. 3084
Grimmer, R. C.; et al. 13211
Guggenheimer, H. 7953
Hartman, Philip 3085
Janoš, Ludvík 7954
Kamenev, I. V. 639
Kartsatos, Athanassios G. 13212
Kim, W. J. 13213
Komkov, Vadim 3086
Kreith, K. 10751,13214
Kuks, L. M. 640
Kusano, Takaŝi; et al. 7955
Leighton, Walter 3087
Lopez, G. C.; et al. (11008)
Lovelady, David Lowell 10752
McLaughlin, Joyce R.; et al. 638
Moravský, L. 641
Nehari, Zeev 642
Patula, W. T.; et al. 13211
Peterson, Allan C.; et al. 3088
Philos, Ch. G.; et al. 5537
Rab, Miloš 643
Rankin, Samuel M., III 3089
Rovder, Jozef 644
Sell, George R. (874)
Staĭkos, V. A.; et al. 5537
Sukup, Dwight V.; et al. 3088
Ţefteller, S. C. 645
Ţejumţla, Haroon O. 13215
Travis, C. C.; et al. (13198)
Tryhuk, Václav 646
Vidossich, Giovanni 647
Wejntrob, Leon 13216
Yoshida, Norio; et al. 7955
Yoshizawa, Taro 5538
Collection: Sansone, Giovanni 3084,7954
Commemoration volumes for Prof. Dr. Akitsugu Kawaguchi's seventieth birthday 7953
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 7951,10751
Ordinary differential equations: 1971 NRL-MRC Conference 3087,5538
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13214
Symposium on Ordinary Differential Equations (Univ. Minnesota, Minneapolis, Minn. 1972; dedicated to Hugh L. Turrittin) (874)

34C15 *Nonlinear oscillations*

Babiĭ, V. P. 10753
Bastin, H.; et al. 3090
Bekmurzaev, O. B.; et al. 7959
Ch'oe, Sun Ch'ŏl 7956,7957
Čirikov, B. V.; et al. 650
Cronin-Scanlon, Jane 7958
Delchambre, M.; et al. 3090
Dodon, A. M. 648
Faĭzibaev, Ž. F.; et al. 7959
Jakubovič, V. A.; et al. 10755
Kiricenko, M. F.; et al. 649
Kossak, O. M. 10754
Kudin, G. I.; et al. 649
Nguyen Van Dao 3091,13217
Rapp, P. (9712)
Senik, P. M.; et al. (9767)
Šepeleva, R. P.; et al. 10755
Sokĭ , B. Ĭ.; et al. (9767)
Torre, Vincent (12245)
Zaslavskiĭ, G. M.; et al. 650
Analytic and qualitative methods of the theory of differential equations 7959
Certain questions on simulation and systems control 649
Équations différentielles et fonctionnelles non linéaires 3090
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 7958

34C20 *Transformation and reduction of equations and systems*

Berkey, Dennis D. (5523)
Brjuno, A. D. 10756
Kokotović, Petar V. 5539
O'Brien, G. C. (10762)

34C25 *Periodic and almost periodic solutions*

Afraĭmovič, V. S.; et al. (11401)
Al'sevič, L. A. 651
Antosiewicz, H. A. 7960
Berger, Melvyn S. 5541
Berkey, Dennis D. 3092
Bucy, R. S. 3093
Bykov, Ja. V.; et al. 3094
Chang, S. H. 7961,10757
Ezeilo, James O. C.; et al. 13218,13219
Freedman, H. I. 7962
Grečko, V. I. (3065)
Hsu, C. S. 5542
Kannan, R. 5543
Kelley, Walter G. 5544
Kiriĭ, K. A.; et al. 3094
Lalli, B. S. 5545
Lewowicz, Jorge (1307)
Mawhin, Jean 7963
Momot, I. P.; et al. 10758
Muhamadiev, Ž. 5540
Nakajima, Fumio 3095
Sacker, Robert J.; et al. (656)
Samoĭlenko, A. M. 3096,10758
Schmitt, B. (13251)
Schmitt, Bruno V. 5546
Schmitt, K. 3097
Schneider, K. R. 5547
Sell, George R. (7972)
Sell, George R.; et al. (656)
Šil'nikov, L. P.; et al. (11401)
Ţejumţla, H. O. 13221
Ţejumţla, Haroon O.; et al. 13218,13219
Utz, W. R. 10759
Vidossich, Giovanni (673)
Yamaguchi, Masaru 3098
Analytic methods for the study of the solutions of nonlinear differential equations 3096
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 3097,5546
Dynamical systems, and questions on the stability of the solutions of differential equations 10758
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (656),3093,7963
Journées de Contrôle (Univ. Bordeaux, Bordeaux, 1973), II (13251)
Ordinary differential equations: 1971 NRL-MRC Conference 5541,7960
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 7962,(7972)

34C30 *Manifolds of solutions, averaging method* [*See also* 47H10,58Fxx.]

Baĭnov, D. D.; et al. (3071)
Balachandra, M. 7964,(10772)
Dodon, A. M. (648)
Dolja, V. V.; et al. 3101
Dvořák, A. V.; et al. 5549
Konstantinov, M. M.; et al. (3071)

34C30 *Continued*

Kulik, V. L. 5548
Kulik, V. L.; et al. 5549
Lê Xuân Cận 5550
Mitropol's'kiĭ, Ju. O. 10761
Mitropol's'kiĭ, Ju. O.; et al. 10760
Moser, Jürgen K. (13998)
Samoĭlenko, A. M.; et al. 10760
Seah, Sek Wui 5551
Teplins'kiĭ, Ju. V. 3099,3100
Valeev, K. G.; et al. 3101
Analytic methods for the study of the solutions of nonlinear differential equations 3099,5548,5549
Asymptotic and qualitative methods in the theory of nonlinear oscillations 10760
Dynamical systems, and questions on the stability of the solutions of differential equations 3101
Non-linear mechanics (C.I.M.E., 1972) 10761
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/ Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 5551
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) (10772)

34C35 *Dynamical systems* [*See also* 58Fxx,70-XX.]

Becker, Robert J. (8729)
Belyh, V. N.; et al. 3102
Bernussou, J.; et al. 5552
Bondi, P.; et al. (8596)
Conley, C. (11397)
De Blasi, F. S.; et al. (8060)
Dobrynskiĭ, V. A. (8733)
Dobrynskiĭ, V. A.; et al. (8734)
Gavrilov, N. I. (1296)
Gurtovnik, A. S.; et al. 13222
Kummer, Martin 7965
LaSalle, J. P. 7966
Liu, H.; et al. 5552
Markus, Lawrence; et al. (13689)
Moauro, V.; et al. (8596)
Neĭmark, Ju. I. (1303)
Neĭmark, Ju. I.; et al. 13222
Nekorkin, V. I.; et al. 3102
Neumann, Dean A. (14006)
O'Brien, G. C. 10762
Pelczar, A. 5553
Pyh, Ju. A. 13223
Šarkovs'kiĭ, O. M.; et al. (8734)
Schinas, J.; et al. (8060)
Sell, George R.; et al. (13689)
Sentis, Rémi (13184)
Dynamical systems, and questions on the stability of the solutions of differential equations (8733,8734)
Ordinary differential equations: 1971 NRL-MRC Conference 7966,(8729,11397)

34C99 *None of the above, but in this section*

Bernussou, J.; et al. 10763
Brauer, Fred 5554
Cashman, William T.; et al. 3103,3104
Cohen, Donald S. (13224)
Ermolin, V. S. 7967
Gal', M. M.; et al. 3105
Gruber, Boris (9730)
Javorskiĭ, M. T.; et al. 3105
Kolesov, Ju. S. 10764
Liu, H.; et al. 10763
McClure, J. P.; et al. 7968
Mihaĭlov, F. A. (9763)
Mira, C.; et al. 10763
Poore, A. B. (9508)
Rachůnková, Irena 13225
Shampine, L. F. (13325)
Sherman, Thomas L.; et al. 3103,3104
Wasow, Wolfgang 7969
Wong, R.; et al. 7968
Methods for the quantitative and qualitative study of differential and integral equations 3105
Ordinary differential equations: 1971 NRL-MRC Conference 5554

34Dxx Stability theory (See also 58F10, 93Dxx.)

Kirchgraber, U. 13229

34D05 *Asymptotic properties, characteristic exponents*

Abgarjan, K. A. 5555
Andreev, A. S.; et al. 10768
Berkey, Dennis D. 5556
Bolotnik, N. N. 5557
Carton, E. 3106
Deo, S. G.; et al. 13226
Dodon, A. M. (648)
Dvornĭkov, V. Ĭ.; et al. 7970
Erbe, L. 5558
Fomin, V. N.; et al. 10767
Garascenko, F. G. 652
Kalas, Josef 653
Kamont, Z.; et al. 10765
Kitamura, Yuichi (657)
Knežević, Julka 654,655
Ladde, G. S.; et al. 13226
Lee, Jong Sen; et al. 10769
Lovelady, David Lowell 10766,13227
Onuchic, L. R.; et al. 13228
Onuchic, N.; et al. 13228
Pawelski, W.; et al. 10765
Prohorova, R. A. 3107
Sacker, Robert J.; et al. 656
Šaĭhet, L. E.; et al. 7970
Sakata, Sadahisa 7971
Samohin, Ju. A.; et al. 10767
Sell, George R. 7972
Sell, George R.; et al. 656
Šul'gin, A. M.; et al. 10768
Weiss, Leonard; et al. 10769
Certain questions on simulation and systems control 652
Équations différentielles et fonctionnelles non linéaires 3106
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 656
Ordinary differential equations: 1971 NRL-MRC Conference 10769
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 7972

34D10 *Perturbations*

Fennell, R. E.; et al. 5559
Hatvani, L.; et al. 10770
Kitamura, Yuichi 657
Nohel, John A. (5773)
Pintér, L.; et al. 10770
Proctor, T. G.; et al. 5559
Prohorova, R. A. 5560
Wang, Tan Chih 10771
Ordinary differential equations: 1971 NRL-MRC Conference (5773)

34D15 *Singular perturbations*

Balachandra, M. B. 10772
Baxley, John V. 5561
Cerneau, Simonne 7973
Kokotović, P. V.; et al. 13230
Wilde, R. R.; et al. 13230
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 5561
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 10772

34D20 *Ljapunov stability*

Antonenko, V. F. 3108
Bartůk, Jaroslav 3109
Bhatia, Nam P. (8595)
Boggs, Paul T. (4095)
Chukwu, E. N. 13231
Dutčak, B. Ĭ.; et al. (8061)
Ermolin, V. S. (7967)
Ezeilo, J. O. C.; et al. 13232
Hallam, T. G.; et al. 658
Hatvani, L. 3110
Husainov, D. Ja. 3111
Husainov, D. Ja.; et al. 5562,10773
Kasperov, V. N.; et al. 5562
Kiričenko, M. F.; et al. (649)
Kljuĭnik, I. F. 13233
Kol'činskiĭ, V. A. 10774
Komkov, V.; et al. 658
Krbec, Pavel 659
Kudin, G. I.; et al. (649)
Lakshmikantham, V.; et al. 5563
Lalli, B. S.; et al. 13234
Leela, S.; et al. 5563
Mitchell, Roger W.; et al. 5564
Moore, Marion E.; et al. 5564
Müller, P. C. 3112
Nečitaĭlo, A. V. (13691)
Pelczar, A. 660,661
Petrie, C. J. S. 7974
Prokop'ev, V. P. 662
Pustovoĭtov, M. O. 5565
Rouche, N. 3113
Salvadori, Luigi 663
Salzberg, Pablo M. (8599)
Šarkovs'kiĭ, O. M.; et al. 10773
Schräpel, H. D. 7975
Seibert, P. 7976
Sigrist, Niklaus 5566
Sinic'kiĭ, L. A.; et al. (8061)
Skrapek, W. A.; et al. 13234
Tejumola, H. O.; et al. 13232
Veretennikov, V. G. 664
Beiträge zur Mechanik (Festschrift zum siebzigsten Geburtstag Udo Wegner) 7975
Certain questions on simulation and systems control (649),3111
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 7974
Dynamical systems, and questions on the stability of the solutions of differential equations 3108,5562,5565,10773
Mathematical methods, and physical and mechanical fields, No. 1 13233
Ordinary differential equations: 1971 NRL-MRC Conference 7976,(8595)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 3112

34D30 *Structural stability and analogous concepts* [*See also* 58Fxx.]

Lefschetz, Solomon (7920)
Ordinary differential equations: 1971 NRL-MRC Conference (7920)

34D35 *Stability of manifolds of solutions*

Fenichel, Neil (14002)

34D99 *None of the above, but in this section*

Cohen, Donald S. 13224
Raghavendra, V.; et al. 5567
Rama Mohana Rao, M.; et al. 5567

34Exx Asymptotic theory

34E05 *Asymptotic expansions*

Bühring, W. 665
Gingold, H.; et al. 13235
Hall, William S. 7977
Harris, W. A., Jr.; et al. 10775
Hoppensteadt, F. C.; et al. 10777
Hoppensteadt, Frank 10776
Hukuhara, Masuo 3114
Leung, Anthony 666
Lutz, D. S.; et al. 10775
Miranker, Willard L.; et al. 10777
Mitropol's'kiĭ, Ju. O. (10761)
Mitropol's'kiĭ, Ju. O.; et al. (10760),13236
Pitts, C. G. C. 667
Polesja, I. V.; et al. (10748)
Rosenblat, S.; et al. 13235
Samoĭlenko, A. M.; et al. (10748,10760),13236
Asymptotic and qualitative methods in the theory of nonlinear oscillations (10760)
Collection: Sansone, Giovanni 3114
Non-linear mechanics (C.I.M.E., 1972) (10761)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1972) 7977,10775
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 665

34E10 *Perturbations*

Chen, J.; et al. 5568
Hoppensteadt, F. 668
McClure, J. P.; et al. (7968)
O'Malley, R. E., Jr.; et al. 5568
Sacker, Robert J.; et al. (656)

34E10 *Continued*

Schmidt, A. 3115
Sell, George R.; et al. (656)
Wong, R.; et al. (7968)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 5568
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (656),668

34E15 *Singular perturbations, general theory*

Fife, Paul C. 7978
Gingold, H. 7979
Isaacson, David 10778
Kung, C. F.; et al. (8405)
O'Malley, R. E., Jr.; et al. (8405)
Šiškin, A. A. 5569
Yarmiàh, Joshua (14391)
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 7979

34E20 *Singular perturbations, turning point theory, WKB-methods*

Bohac, Robert; et al. 7980
(Dicke, A.) (4397)
Fröman, Nanny 3116
Lau, Y. Y.; et al. 13237
Lin, C. C.; et al. 13237
McKelvey, Robert; et al. 7980
Nur, H. S. 5570
Olver, F. W. J. 13238
Rubenfeld, L. A.; et al. 13239
Simon, Barry (4397)
Willner, B.; et al. 13239
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 13238
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 5570,7980

34F05 Equations and systems with randomness (See also 60H05, 93Exx.)

Bunke, Helga (*11499)
Dimentbert, M. F., Jr. 10779
Doss, Halim (14098)
Kistner, A. 5571
Sagirow, P. 5572
Sussmann, Héctor J. 7981
Zahar-Itkin, M. H. 13240
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 5571,5572

34G05 Differential equations in Banach and other abstract spaces (See also 47Bxx.)

Aliev, A. B.; et al. 669
Ardito, Ada; et al. 7982
Arminjon, Paul 7983
Atahodžaev, M. A. 5573
Balaev, M. K.; et al. 3119
Barbieri, Francesco; et al. 10780
Barták, Jaroslav (3109)
Biroli, Marco 7984
Bulgakov, A. I. 13241
Crouzeix, Michel; et al. (14377)
Derguzov, V. I.; et al. 3117
Donaldson, James A. 7985
Dunninger, D. R.; et al. 10781
Dyment, D. A.; et al. 13242
Facchinetti, Gisella; et al. 10780
Falconi, Manuel J.; et al. (681)
Fattorini, H. O. 10782
Favini, Angelo (3449),10783
Fitzgibbon, W. E. 7986
Gaultier, Maurice (8323),13243
Goldstein, Jerome A. (3450)
Grossman, R. I.; et al. 10791
Gudovič, A. N.; et al. 13244
Gudovič, N. N.; et al. 13244
Hadžić, O. 3118
Hoppensteadt, Frank (10776)
Jakubov, S. Ja.; et al. 669,3119
Jasakov, A. I.; et al. 13247
Jean, M. (13688)
Jurčuk, N. I. 766
Kabulov, R. (3452)
Kabulov, R.; et al. 10785,10786
Kamont, Z.; et al. 10787
Kaplan, James L.; et al. 670
Kisielewicz, Michał 3120a-b
Korenĭvs'kiĭ, D. G. (5585)
Kurtz, Thomas G. 13245
Kutmatov, Š.; et al. 10785,10786
Kvedaras, B.; et al. 7987
Kwapisz, M.; et al. 10787
Ladas, G.; et al. 3121
Lagnese, John 7988
Lakshmikantham, V.; et al. 3121
Levine, Howard A.; et al. 10781
Lovelady, D. L. 13246
Lovicar, Vladimír 3122
Ludwig, Klaus 10788,10789
Macionis, J.; et al. 7987
Malik, M. A. 671
Mamedov, Ja. D.; et al. 672a-b
Melan'ina, T. M.; et al. 3117
Mišnaevskiĭ, P. A. 10790
Mitropol's'kiĭ, Ju. O.; et al. 10791
Mogilevskaja, L. B. 10792
Naito, Toshiki (686)
Obrecht, Enrico 7989
Onciulencu, I. 10793
Rao, Aribindi Satyanaryan 5574
Raskin, V. G.; et al. 13247
Raviart, Pierre-Arnaud; et al. (14377)
Reid, W. T. 3123
Ricciardi, Paolo; et al. 7982
Russell, David L. 13248
Showalter, R. E. 10794
Sljusarčuk, V. E. (775),10795
Sobolevskiĭ, P. E.; et al. 13242
Sova, Miroslav 10796,10797
Strygin, V. V. 13249
Teplĭns'kiĭ, Ju. V. (3100)
Timčenko, N. A.; et al. 3117
Treves, François 5575
Tubaro, Luciano; et al. 7982
Veliev, M. A.; et al. 672a-b
Vidossich, Giovanni 673
Volkmann, Peter 3124
Vorel, Zdenek; et al. (681)
Walker, Philip W. 5576
Webb, G. F. 13250
Wells, John C. (6206)
Yorke, James A.; et al. 670
Analytic methods for the study of the solutions of nonlinear differential equations (775,5585)
Asymptotic and qualitative methods in the theory of nonlinear oscillations 10791
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) 5575
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 13246
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 670
Non-linear mechanics (C.I.M.E., 1972) (13688)
Ordinary differential equations: 1971 NRL-MRC Conference 3121
Problems: Mathematical analysis, No. 5 3117
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) (3452),10785,10786

34H05 Control problems (See also 49—XX, 93—XX.)

Antonovič, T. N. (3554)
Guljakina, N. A. (3556)
Ignatenko, V. V. (3557)
Kikuchi, Norio 674
Kiričenko, M. F.; et al. 7990
Koval'skiĭ, I. P.; et al. 7990
Schmitt, B. 13251
Certain questions on simulation and systems control 7990
Japan-United States Seminar on Ordinary Differential and Functional Equations (Kyoto, 1971) 674
Journées de Contrôle (Univ. Bordeaux, Bordeaux, 1973), II 13251

34Kxx Functional-differential equations with retarded arguments, functional-differential equations with deviating arguments

Mitropol's'kiĭ, Ju. O.; et al. 675
Myškis, A. D.; et al. 675
Šarkovs'kiĭ, O. M.; et al. 675
All-Union Conference on the Theory and Applications of Differential Equations with Deviating Argument, Fourth (Kiev, 1975) 675

34K05 *General theory*

Abbasov, Z. G. 5577
Błaž, J.; et al. 3125
Blinov, S. P. 676
Bouc, R. 10798
Brauer, Fred; et al. (2249)
Burns, J. A.; et al. 5578
Czerwik, S. 13252
Goma, I. A. 10799
Hale, Jack K. (10803)
Heikkilä, Seppo 677
Herdman, T. L.; et al. 5578
Kamont, Z.; et al. (10787)
Kwapisz, M.; et al. (10787)
Liu, Tsai Sheng 13253
Naumovič, R. F. (5948)
Pidkuĭko, S. I.; et al. 10800
Rapp, Piotr 13254
Sánchez, David A.; et al. (2249)
Sidijarov, S. 10801
Stepin, A. M.; et al. 10800
Toda, Morikazu; et al. (4452,4453)
Tsoi, A. C. 13255a-b
Voronina, N. V. 3126
Wadati, Miki; et al. (4452,4453)
Walter, W.; et al. 3125
Webb, G. F. (13250)
Équations différentielles et fonctionnelles non linéaires 10798
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (2249,10803)

34K10 *Boundary value problems*

Azbelev, N. V.; et al. 678
Baĭnov, D. D.; et al. 5579
Burd, V. Š.; et al. 13256
Gersman, Ju. A.; et al. 3127
Hughes, David K. 679
Islamov, G. G.; et al. 678
Kolesov, Ju. S.; et al. 13256
Konstantinov, M. M.; et al. 5579
Myškis, A. D.; et al. 3127
Ohkohchi, Shigemi 13257
Seĭdov, Z. B. 13258
Sidijarov, S. (11010)
Webb, G. F. (13250)

34K15 *Qualitative theory*

Baĭnov, D. D.; et al. 5584,(8195)
Borteĭ, M. S.; et al. 5581
Burton, T.; et al. 10802
Carvalho, L. A. V.; et al. 5580
Dahiya, R. S.; et al. 5589
Eliason, Stanley B. 680
Falconi, Manuel J.; et al. 681
Fodčuk, V. I.; et al. 5581
Futák, Ján 682
Genêt, Jean; et al. 13262
Grimmer, R.; et al. 10802
Halanay, A. 5582
Hale, Jack K. 3128,10803
Izé, A. F.; et al. 5580
Kappel, F. 683,13259
Kartsatos, Athanassios G. 5583
Kartsatos, Athanassios G.; et al. 684
Konstantinov, M. M.; et al. 5584
Koplatadze, R. G. 685
Korenĭvs'kiĭ, D. G. 5585
Kusano, Takaŝi; et al. 3129,5586,10804,13260
LaSalle, J. P. (7966)
Li, Ok Yŏn 733
Liu, Tsai Sheng 5587
Lovelady, David Lowell 13261
Miluševa, Svetla D.; et al. (8195)
Nababan, S.; et al. 7991
Naito, Manabu; et al. 3129
Naito, Toshiki 686
Noussair, E. S.; et al. 7991
Onose, Hiroshi 10805,10806
Onose, Hiroshi; et al. 684,5586,10804,13260
Poliščuk, V. M. 687
Schäffer, J. J. 10807
Séguier, Pierre; et al. 13262
Sficas, Y. G. 13263
Sficas, Y. G.; et al. 5588
Singh, Bhagat 10808,13264,13265
Singh, Bhagat; et al. 5589
Smith, Hal Leslie 5590
Staĭkos, V. A.; et al. 5588
Vorel, Zdenek; et al. 681
Włodarska-Dymitruk, Anna 688
Wong, James S. W. 13266
Analytic methods for the study of the solutions of nonlinear differential equations 5585
Delay and functional differential equations and and their applications 10802

34K15 *Continued*

Dynamical systems, and questions on the stability of the solutions of differential equations 687
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 683,10803
Ordinary differential equations: 1971 NRL-MRC Conference 3128,(7966),10807,13266
Proceedings of the International Conference on Nonlinear Oscillations, Fifth (Kiev, 1969), Vol. 1 5582

34K20 *Stability theory*

Datko, Richard (9788)
Halanay, A. 5591
Lillo, J. C. 5592
Martinjuk, A. A. 10809
Martinjuk, D. I. *3130
(Mitropol's'kiĭ, Ju. O.) *3130
Pandolfi, L. (7060)
Saadabaev, A. (11009)
Sinha, A. S. C. 5593
Sljusarcuk, V. E. (10795)
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) (9788)
Équations différentielles et fonctionnelles non linéaires 5591

34K25 *Asymptotic theory*

Arolska, M. At.; et al. 5594
Baĭnov, D. D.; et al. 5594
Carr, J.; et al. 13267
Dyson, J.; et al. 13267
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13267

34K99 *None of the above, but in this section*

Błaż, Jan 5595

35—XX PARTIAL DIFFERENTIAL EQUATIONS

35-01 *Elementary exposition (collegiate level)*

Kondraševa, I. L. *3131
(Mayorga, Bernardo) *3132
Smirnov, M. M. *3132,*3133

35-06 *Collections of papers; proceedings of conferences*

(Ladyženskaja, O. A.) *10810
(Petrovskiĭ, I. G.) 689,(*7161)
Boundary value problems of mathematical physics and related questions in the theory of functions, 9 *10810
Collection: Petrovskiĭ, I. G. (*7161)
Mathematical physics *10810
Meetings of the I. G. Petrovskiĭ Seminar on the Differential Equations and Mathematical Problems of Physics (Moscow State Univ., September-December, 1975) 689
Moscow Mathematical Society (*7161)
Seminar on the Differential Equations and Mathematical Problems of Physics (Moscow State Univ., September-December, 1975) 689
Theory of functions *10810
Transactions of the Moscow Mathematical Society (*7161)

35Axx General theory

35A05 *General existence and uniqueness theorems*

Cardoso, Fernando 13268
Komatsu, Hikosaburo 5596
Šananin, N. A. 13269
Taiani, Geraldine (7992)
Wenston, Paul R. 10811

35A10 *Cauchy-Kowalewski theorems*

Baouendi, M. S.; et al. (13356)
Braĭčev, G. G. 7993
Goulaouic, C.; et al. (13356)
Kleiza, J. 5597
Mizohata, Sigeru 10812

35A20 *Analytic methods, singularities*

Naas, Josef; et al. 13270
Tsuno, Yoshimichi 5598,5599
Tutschke, Wolfgang; et al. 13270

35A25 *Other special methods*

Chester, Clive R. 3134

35A30 *Geometric theory, characteristics, transformations*

Bony, J. M. (1314)
Brîndeu, L.; et al. (10251)
Dunau, Jacques (1316)
Gheorghiu, Oct. Em.; et al. (10251)
Ibragimov, N. H. (13960)
Sadykov, I. H. (14021)
Šananin, N. A. (13269)
Schapira, P.; et al. (1314)
Wood, D. H. 5600
Yoshida, Masaaki (13962)
Collection of articles dedicated to Vasile Mioc on his seventieth birthday (10251)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 5600

35A35 *Theoretical approximation to solutions*

Burlačenko, V. P.; et al. (10867)
Colli Franzone, Piero (5615)
Sîdenko, M. Ĭ.; et al. (10867)
Sigillito, Vincent G. (5631)

35A99 *None of the above, but in this section*

Chan, Sang Lung 13271,13272
Fridlender, V. R.; et al. 13289
Husnetdinov, M. Z.; et al. 13289

35Bxx Qualitative properties of solutions

35B05 *Comparison theorems; oscillation, zeros and growth of solutions*

Allegretto, W. 3135
Bandle, Catherine (732)
Barański, F. 13273
Bushard, Louis B. 10813
Ch'ên, Hsiu Hsiung 10814
Collatz, L. 7994
Hudaĭ-Verenov, O. M.; et al. 13274
Kusano, Takaŝi; et al. 13275,13276
Narita, Mamoru; et al. 13276
Noussair, E. S.; et al. 13277
Onose, Hiroshi; et al. 3136
Redžepov, A.; et al. 13274
Swanson, C. A. 13277
Toraev, A.; et al. 13274
Wachnicki, Eugeniusz 10815
Yokoyama, Etuo; et al. 3136
Yoshida, Norio 13278
Yoshida, Norio; et al. 13275
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 7994

35B10 *Periodic solutions*

Benachour, Saïd 13279
Haimovici, Adolf 3137
Hecquet, Gérard 7995
Klimov, V. S. 690
Nakao, Mitsuhiro (5632)
(Petrovanu, Dan) 7995
Rosen, Gerald (9713)
Stokes, Arnold 691
Vidossich, Giovanni (673)

35B15 *Almost periodic solutions*

Bagirov, L. A.; et al. 10816
Humi, Mayer 692
Šubin, M. A.; et al. 10816

35B25 *Singular perturbations*

Greenlee, W. M. (8327)
de Groen, P. P. N. 10817
Konishi, Yoshio 3138
Lobo Hidalgo, Miguel (736)
Quinn, D. W.; et al. (2995)
Schuss, Zeev 693
Tang, Min Ming 10818
Weinacht, R. J.; et al. (2995)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 10817
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 10818

35B30 *Dependence of solutions on initial and boundary data, parameters*

Gasanov, M. G.; et al. (13327)
Muradov, R. I.; et al. (13327)

35B35 *Stability and control, boundedness* [*See also* 93-XX.]

Bandle, Catherine 694
Čaus, M. M. 10819
Džoldošev, O. D.; et al. 695
Sibony, Moïse (1044)
Šiško, N. P. 10820
Temirbaev, K.; et al. 695
Vostrov, V. K.; et al. 695
Collection: Candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III 695

35B40 *Asymptotic behavior of solutions*

Arena, Orazio; et al. 696
Arsen'ev, A. A. 5601
Chikwendu, S. C. 3139
Demidov, A. S. (3771)
Džavadov, M. G.; et al. 5602
Ĭdel'man, S. D.; et al. 10821
Eskin, G. I. 13280
Fedorjuk, M. V. (3006)
Hoppensteadt, Frank (10776)
Ležnev, V. G. (13352)
Littman, Walter; et al. 696
Mahmudov, M. D.; et al. 5602
Mochizuki, Kiyoshi 5603
Peletier, L. A. 13281
Šatalov, V. E.; et al. (6215)
Sternin, B. Ju.; et al. (6215)
Valic'kiĭ, Ju. M.; et al. 10821

35B45 *Differential inequalities, a priori estimates*

Onose, Hiroshi; et al. (3136)
Yokoyama, Etuo; et al. (3136)

35B99 *None of the above, but in this section*

Ruscheweyh, Stephan; et al. 5604
Wirths, Karl-Joachim; et al. 5604

35B99 *Continued*

Three articles on pseudo-analytic functions and elliptic differential equations 5604

35Cxx Representations of solutions

35C05 *Solutions in closed form*

Jank, G. 13282
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13282

35C10 *Series solutions, expansion theorems*

Kleiza, J. (10640)
Lun, E.; et al. (6690)
Pogorzelski, R. J.; et al. (6690)
Taldykin, A. T. 10822
Žemuhov, H. K. (13304)
Linear and nonlinear boundary value problems (13304)

35C15 *Integral representations*

Asada, Akira (7833)
Maričev, O. I. (10899)
Mihlin, S. G. 10823
Nelson, Stuart 3140
Rühs, Fritz 13283
Ruscheweyh, Stephan; et al. (5604)
Schempp, Walter (11406)
Wirths, Karl-Joachim; et al. (5604)
Collection: Pincone, Mauro (II) 10823
Three articles on pseudo-analytic functions and elliptic differential equations (5604)

35C99 *None of the above, but in this section*

Babič, V. M.; et al. (*14569)
Buldyrev, V. S.; et al. (*14569)
(Molotkov, I. A.) (*14569)
(Popov, M. M.) (*14569)

35Dxx Generalized solutions

35D05 *Existence of generalized solutions*

Castro, Alfonso (723)
Levine, Howard A.; et al. 697
Payne, Lawrence E.; et al. 697
Simader, Christian G. (8018)
Treves, François (14014)

35D10 *Regularity of generalized solutions*

Derridj, Maklouf; et al. (1312)
El Kolli, Amar 13284
Gariepy, Ronald; et al. 7996
Kolodiĭ, I. M. 698
Lascar, Richard (14010)
Lemrabet, Keddour 5605
Nguyên Phuong Câc (3155)
Popivanov, Nedju I. 10824
Sjostrand, Johannes 13285
Sperner, Emanuel, Jr. 3141
Tartakoff, David S.; et al. (1312)
Uhlenbeck, K. (1288)
Ziemer, William P.; et al. 7996

35Exx Equations and systems with constant coefficients (See also 35N05.)

35E05 *Fundamental solutions*

Cattabriga, Lamberto; et al. 10825
De Giorgi, Ennio; et al. 10825
Enqvist, Arne 10826
Gal'pern, S. A. 3142
Iosif'jan, G. A. 699
Collection:
Bompiani, Enrico 10825
Petrovskiĭ, Ivan Georgievič (1901-1973), I 3142

35E10 *Convexity properties*

Kaneko, Akira 700
Kawai, Takahiro (11405)

35E15 *Initial value problems*

Hörmander, Lars 7997
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) 7997

35E99 *None of the above, but in this section*

Artino, Ralph A. (5609)
Avantaggiati, Antonio 13286
Eskin, M. I. (3181)

35Fxx General first order equations and systems

35F05 *Linear equations and systems, general*

Akamatsu, Toyohiro 7998
Šugrin, S. M. (3143)
Taiani, Geraldine (7992)
Žilenko, S. V. 5606

35F10 *Initial value problems for linear equations and systems*

Nakaoka, Akira 7999

35F20 *Nonlinear equations and systems, general*

Ballou, Donald P. 5607
Lyčagin, V. V. (8691)

35F25 *Initial value problems for nonlinear equations and systems*

Fursikov, A. V. 13287

35Gxx General higher order equations and systems

35G05 *Linear equations and systems, general*

Braĭčev, G. G. 5608
Ĭĭdel'man, S. D.; et al. 10827
Gröger, Konrad 10784
Komatsu, Hikosaburo (5596)
Kondrat'ev, V. A.; et al. 10827
Redheffer, Ray (10850,10851)

35G10 *Initial value problems for linear equations and systems*

Mizohata, Sigeru 701

35G15 *Boundary value problems for linear equations and systems*

Antypko, I. I.; et al. 13288
Borok, V. M.; et al. 13288
Malahovskaja, R. M. 8000
Mokeĭčev, V. S. 3144
Mathematical questions, No. 3 8000

35G20 *Nonlinear equations and systems, general*

Chow, Shui Nee; et al. (3753)
Gromov, M. L. (1323)
Hale, Jack K.; et al. (3753)
Mallet-Paret, John; et al. (3753)
Spencer, D. C. (11420)
Manifolds-Tokyo 1973 (11420)

35G25 *Initial value problems for nonlinear equations and functions*

Levine, Howard A.; et al. (697)
Payne, Lawrence E.; et al. (697)

35G30 *Boundary value problems for nonlinear equations and systems*

Dubinskiĭ, Ju. A. 702
Frasca, Michele 3145
Mamedov, A. P. 3146

35Hxx Hypoelliptic equations and systems

Artino, Ralph A. 5609
Barros-Neto, J.; et al. 8001
Bolley, Pierre; et al. 13290
Boutet de Monvel, L. 13291
Camus, Jacques; et al. 13290
Cardoso, Fernando (13268)
Derridj, M.; et al. (3766)
Gaveau, Bernard 13292
Grigis, Alain *10828
Helffer, B. (1318),8002,(*8746)
Helffer, Bernard; et al. 13290
Jucan, T. 703
Kato, Yoshio 704
Matarasso, Silvano 10829
Miyake, Masatake 3147
Oleĭnik, O. A. 3148
Smagin, S. A. 5610
Trèves, F.; et al. 8001
Unterberger, A.; et al. 5611
Unterberger, J.; et al. 5611
Yamamoto, Kazuhiro 5612
Zuily, C.; et al. (3766)
Analyse fonctionnelle et applications (Comptes Rendus Colloq. d'Analyse, Inst. Mat., Univ. Federal Rio de Janeiro, Rio de Janeiro, 1972) 8001
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle (3766)
Séminaire Goulaouic-Schwartz 1973-1974: Équations aux dérivées partielles et analyse fonctionnelle 13291

35Jxx Elliptic equations and systems

35J05 *Laplace's equation, reduced wave equation (Helmholtz), Poisson's equation*

Abasov, A. M. 13293
Alić, M. (1651)
Cepelev, N. V. 5613
Ciric, I. R. 705
Proskurowski, Wlodzimierz; et al. (9107)
Ramm, A. G. 10830
Walpole, L. J. 8003
Widlund, Olof; et al. (9107)
Wood, D. H. (5600)
Collection: Rădulet, Remus (I) 705
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (5600)
Mathematical questions in the theory of wave propagation, 7 5613
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 8003

35J10 *Schrödinger operator [See also 47A40.]*

Bonč-Bruevič, V. L. 13294
Boutet de Monvel, Louis (11409)
(Dicke, A.) (4397)
Eastham, M. S. P. 13295
Eastham, M. S. P.; et al. 5614
Evans, W. D.; et al. 5614
Kalugina, T. F. 13296
Kul'cickiĭ, V. L. (13318)
Kuroda, S. T. (757,13340)
McLeod, J. B.; et al. 5614
Nikolenko, N. V. (6200)
Simon, Barry (4397)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13340)

35J10 *Continued*

Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) (11409)
Linear and nonlinear boundary value problems (13318)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13295

35J15 *Second order equations, general*

Bauer, Karl Wilhelm; et al. (10618)
Byhovskiĭ, E. B. 13297
Everitt, W. N.; et al. 13298
Furusho, Yasuhiro 10831
Giertz, M.; et al. 13298
Hervé, Rose-Marie (7825)
Hile, Gerald N. 706
Hudaĭ-Verenov, O. M.; et al. (13274)
Jank, Gerhard; et al. (10619)
Kolodiĭ, I. M. (698)
Malahovskaja, R. M. 10832
Mochizuki, Kiyoshi (5603)
Mustafaev, Š. I. 8004
Redžepov, A.; et al. (13274)
Ruscheweyh, Stephan; et al. (10618,10619)
Toraev, A.; et al. (13274)
Vaĭnbrand, G. I. 13299
Collection: Brelot, Marcel (7825)
Mathematical questions, No. 3 10832
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13298
Three articles on pseudo-analytic functions and elliptic differential equations (10618,10619)

35J20 *Second order equations, variational methods*

Boccardo, Lucio; et al. 13300
Chicco, Maurizio (3182)
El Kolli, Amar 8005
Marcellini, Paolo; et al. 13300
Pucci, Carlo; et al. 8006
Scarpini, F. (14401)
Talenti, Giorgio; et al. 8006

35J25 *Second order equations, boundary value problems*

Afjan, S. K. 8007
Baouendi, M. S.; et al. 707
Colli Franzone, Piero 5615
Deneva, Sonja 13301
Goulaouic, C.; et al. 707
de Groen, P. P. N. (10817)
Guščin, A. K.; et al. 5616
Hess, Peter 10833
Holland, Charles J. (8865)
Ivanov, A. V.; et al. 5617
Ivočkina, N. M.; et al. 5617
Januŝauskas, A. I. 3149
Ladyženskaja, O. A.; et al. 5617
Manselli, Paolo 10834
Martirosjan, G. A. 10835
Michael, J. H. 13302
Mihaĭlov, V. P.; et al. 5616
Murtazaev, D. 10836
Nadžafov, H. M. 8008
Oppezzi, Pirro 13303
Taldykin, A. T. (10822)
Treskunov, A. L. 708
Wake, G. C. 709
Boundary value problems of mathematical physics, 9 708
Collection: Smirnov, V. I. 5617
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (10817)
Differential and integral equations with singular coefficients 10836
Summer Research Conference on Singular Perturbations: Theory and application (Northern Arizona Univ., Flagstaff, Ariz., 1975) (8865)

35J30 *Higher order equations, general*

Čan Dyk Van; et al. 710
Evans, W. D. (5643)
Foht, O. S. 711
Foht, O. S.; et al. 712
Korzjuk, V. I.; et al. 710
Krasnov, V. A.; et al. 712
Landis, E. M. 713
LaVita, James A.; et al. 10837
Nakamura, Mikio 10838
Walker, Homer F.; et al. 10837
Watanabe, Kinji; et al. 10839
Žemuhov, H. K. 13304
Zuily, Claude; et al. 10839
Linear and nonlinear boundary value problems 13304
Spectral theory and asymptotics of differential equations (Proc. Conf., Scheveningen, 1973) (5643)

35J35 *Higher order equations, variational problems*

Elcrat, Alan; et al. 5618
Inoue, K. (14079)
Meyers, Norman G.; et al. 5618
Mirošin, N. V. 8009

35J40 *Higher order equations, boundary value problems*

Doktorskiĭ, R. Ja. 3150
Džavadov, M. G.; et al. (5602)
Frank, Leonid 10840
Glowinski, Roland; et al. (6521)
John, O.; et al. 3151
Komkov, V. 13305
Kostarčuk, Ju. V. 3152
Koval'ov, V. F. 10841
Krbec, Miroslav 5619
Kuroda, S. T. (5645)
Mahmudov, M. D.; et al. (5602)
Matarasso, Silvano (10829)
Mozolevskiĭ, I. E. 10842
Naumann, J.; et al. 3151
Pironneau, Olivier; et al. (6521)
Rabinovič, V. S. 13306
Radžabov, N. 8010
Roĭtberg, Ja. A.; et al. (11133)
Saak, E. M. 714,3153
Sandžieva, K. B. 13307
Šatalov, V. E. (14012)
Šeftel', Z. G.; et al. (11133)
Solonnikov, V. A. (10884)
Sternin, B. Ju. (14013)
Taira, Kazuaki 10843
Tanaka, Hidematu (7816)
Troisi, Mario 715
Trombetti, Guido 8011
Vacek, Jiří 716
Witsch, Karl J. 3154
Differential equations and inequalities 13307
Investigations on linear operators and the theory of functions, V (10884)
Spectral theory and differential equations (Proc. Sympos., Dundee, 1974; dedicated to Konrad Jörgens) (5645)

35J45 *Systems, general*

Brusencev, A. G. (13333)
Chen, Kuang Ho 10844
Nažmiddinov, H.; et al. (2987)
Sperner, Emanuel, Jr. (3141)
Usmanov, Z. D.; et al. (2987)

35J50 *Systems, variational methods*

Nirenberg, L. (1324)
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) (1324)

35J55 *Systems, boundary value problems*

Avantaggiati, Antonio (13286)
Bottaro, Gianfranco; et al. 8012
Burčuladze, T. V. 717
Grubb, Gerd (1317)
Kashiwara, Masaki; et al. (1319a-b,1320)
Kawai, Takahiro; et al. (1319a-b,1320)
Maz'ja, V. G. 718,719
Oppezzi, Pirro; et al. 8012
Plamenevskiĭ, B. A.; et al. 719
Saks, R. S. 8013
Application of functional methods to the boundary value problems of mathematical physics 8013
Proceedings of the Symposium on Continuum Mechanics and Related Problems of Analysis (Tbilisi, 1971), Vol. 1 718,719
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle (1320)

35J60 *Nonlinear equations and systems*

Cheng, Shiu Yuen; et al. (11247)
Kinderlehrer, David 8014
Sandžieva, K. B. 13308
Trudinger, Neil S. 13309
Uhlenbeck, K. (1288)
Vansnick, Jean-Claude (11233)
Yau, Shing Tung; et al. (11247)
Differential equations and inequalities 13308

35J65 *Nonlinear boundary value problems for linear equations and systems. Boundary problems for nonlinear equations and systems.*

Abeasis, Anna Flávia 720
Amann, Herbert 721
Amann, Herbert; et al. 5620
Arhipova, A. A. 722
Bandle, Catherine (13726)
Bombieri, Enrico (13693)
Brill, Heinz 13310
Castro, Alfonso 723
Chikwendu, S. C. (3139)
Derridj, Makhlouf; et al. 8015
Dias, João-Paulo; et al. 8015
Edmunds, D. E. 10845
Fichera, G. 8016
Hetzer, Georg 724
Koselev, A. I. 725
Kuiper, Hendrik J. 726
Laetsch, Theodore; et al. 5620
Nakao, Mitsuhiro 8017
Nguyễn Phuong Các 3155
Simader, Christian G. 8018
Simon, Leon 727
von Wahl, Wolf 3156
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 8016
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) (13693)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10845
Problems: Mathematical Analysis, No. 5 722

35J67 *Boundary values of solutions*

Mihaĭlov, V. P. 13311

35J70 *Equations and systems of degenerate type*

Benevento, Maria L.; et al. 8019,8020
Bronšteĭn, M. D. 13312
Bruno, Teresa; et al. 8019,8020
Castellano, Laura; et al. 8019,8020
Hanouzet, Bernard 8021
Hiĭirbekov, T. E. 13313
Lo, Chi Yeung 728
Mirošin, N. V. 10846
Novruzov, A. A. 10847
Pham The Lai (754)
Tersenov, S. A. 729

35J99 *None of the above, but in this section*

Friedman, Avner 13314
Klenina, L. I. 730
Wachnicki, Eugeniusz (10815)

35Kxx Parabolic equations and systems

35K05 *Heat equation*

Abdullaeva, G. Z. (10903)
Amonov, B. K.; et al. 731
Antimirov, M. Ja. 13315
Cho, Hang Sŏk 8022,8023
Eĭdel'man, S. D.; et al. (10821)
Gaveau, Bernard; et al. (8756)
Hansen, Wolfhard (3002)
Kersner, R. 13316
Lavrent'ev, M. M.; et al. 731
Mazet, Edmond; et al. (8756)
Seidman, Thomas I. 5621
Simonenko, I. B. 8024

35K05 *Continued*

Swan, George W. (2252)
Valic'kiĭ, Ju. M.; et al. (10821)
Watzlawek, Wolfgang 3157
Latvian mathematical yearbook, 17 13315

35K10 *Second order equations, general*

Bandle, Catherine 732,3158
Besala, P. 10848
Chabrowski, J.; et al. 3159
Friedman, Avner 10849
Friedman, Avner; et al. 3160
Kinderlehrer, David; et al. 3160
Klimov, V. S. (690)
Redheffer, Ray 10850,10851
Reynaud, G.; et al. 3159
Stokes, Arnold (691)
Szarski, J. (765)
Talenti, Giorgio 8025
Collection: Ważewski, Tadeusz (IV) 10848
Colloque International C.N.R.S. sur les Équations aux Dérivées Partielles Linéaires (Orsay, 1972) 8025
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10849

35K15 *Second order equations, initial value problems*

Aliev, N. M. (13355)
Amouroux, Marcel; et al. (9770)
Babary, Jean-Pierre; et al. (9770)
Groza, G. G. 10852
Matiĉuk, M. I. 13317
Peletier, L. A. 5622,10853
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10853
Studies of special questions in the theory of differential equations (13355)

35K20 *Second order equations, boundary value problems*

Bazaliĭ, B. V. 8026
Beznoŝenko, N. Ja. 8027
Biroli, Marco 10854
Guŝĉin, A. K. 10855
Himĉenko, B. N.; et al. 8028
Isakov, V. M. (10904)
Kamynin, L. I.; et al. 8028
Kenmochi, Nobuyuki 10856
Kul'ĉickiĭ, V. L. 13318
Linke, Hans-Peter 13319
Mikulec, A. T. 8029
Pagani, Carlo 3161
Saliev, A. 13320,13321
Ŝiŝkin, G. I. 8030
Tang, Min Ming (10818)
Linear and nonlinear boundary value problems 13318
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 13320,13321
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) (10818)

35K25 *Higher order equations, general*

Ĕĭdel'man, S. D.; et al. 3162
Kato, Yoshio (704)
Kim, Sun Ho 8031
Kusano, Takaŝi; et al. (13276)
Narita, Mamoru; et al. (13276)
Pletn'ova, T. G.; et al. 3162
Rundell, William; et al. 8032
Stecher, Michael; et al. 8032

35K30 *Higher order equations, initial value problems*

Bagirov, L. A.; et al. (10816)
Pecher, Hartmut; et al. 10858
Ŝiŝko, N. P. (10820)
Ŝubin, M. A.; et al. (10816)
von Wahl, Wolf 10857
von Wahl, Wolf; et al. 10858

35K35 *Higher order equations, boundary value problems*

Aleksandru, I. N. 734
Krylov, N. V. 8033
Nakao, Mitsuhiro; et al. 10859
Nanbu, Tokumori; et al. 10859
Oleĭnik, O. A. 3163

35K40 *Systems, general*

Yeh, Cheh Chih 10860

35K45 *Systems, initial value problems*

Mock, M. S. 5623

35K50 *Systems, boundary value problems*

Katarzyna, Litewska 5624
Katrahov, V. V.; et al. 13322
Kiprijanov, I. A.; et al. 13322
Kurpel', M. S.; et al. 5625
Ljapin, V. M.; et al. 13322
Maĭboroda, I. M. 5626
Maĭboroda, I. M.; et al. 5625
Nowotarska, Małgorzata 3164
Methods for the quantitative and qualitative study of differential and integral equations 5625,5626

35K55 *Nonlinear equations and systems*

Biroli, Marco 735
Budak, B. M.; et al. 3165
Fursikov, A. V. 3166
Gaponenko, Ju. L.; et al. 3165
Kalaŝnikov, A. S. 13323
Kametaka, Yoshinori 10861
Krylov, N. V. 13324
Lobo Hidalgo, Miguel 736
Saliev, A. 737
Shampine, L. F. 13325
Viŝik, M. I. (3194)
Viŝik, M. I.; et al. 3166
Zelenjak, T. I. 3167
Application of functional methods to the boundary value problems of mathematical physics 3167
Collection: Petrovskiĭ, Ivan Georgievič (1901-1973), I 3166
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 737

35K60 *Nonlinear boundary value problems for linear equations and systems. Boundary value problems for nonlinear equations and systems.*

Kiselev, A. I.; et al. 5627
Krasnov, M. L.; et al. 5627
Makarenko, G. I.; et al. 5627
Pao, C. V. 5628,10862
Soltanov, K. N. 8034
Wörz-Busekros, Angelika 13326
Difference methods of solution of boundary value problems for integro-differential equations 3165

35K99 *None of the above, but in this section*

Biroli, Marco (7984)
Czech, Adam; et al. (8867)
Fattorini, H. O. (5933)
Förster, W. 8035
Gilbert, R. P.; et al. 5629
Jama, Danuta; et al. (8867,8868)
Janiec, Barbara; et al. (8867,8868)
Obrecht, Enrico (7989)
Rosencrans, S. I. 5630
Schneider, Manfred; et al. 5629
Seidman, Thomas I. (5946)
Sigillito, Vincent G. 5631
Szocińska, Ewa; et al. (8867)
Vasilache, Sergiu (929)
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) (5933,5946)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 8035

35Lxx Hyperbolic equations and systems

35L05 *Wave equation*

Anikonov, Ju. E. 8036
Braunss, G.; et al. (11054)
Chang, S. C.; et al. 10863
Ciment, Melvyn; et al. (4125)
Isakov, V. M. (5652)
Janis, Allen I.; et al. 10863
Kupka, I. A. K.; et al. 738
Leventhal, Stephen H.; et al. (4125)
Liese, R.; et al. (11054)
Matsumura, Akitaka (8048)
Matsumura, Mutsuhide 10864a-b
Meyer, Y. (267)
Nakao, Mitsuhiro 5632,10865
Osher, S. J.; et al. 738
Pecher, Hartmut 10866
Rączka, R. (4430)
Šadrin, G. A. 739
Zahar-Itkin, M. H. 3168
Differential equations and inequalities 739
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionnelle. Deux journées p-radonifiantes (267)

35L10 *Second order equations, general*

Buhgeĭm, A. L.; et al. (767)
Jahno, V. G.; et al. (767)

35L15 *Second order equations, initial value problems*

Burlačenko, V. P.; et al. 10867
Gasanov, M. G.; et al. 13327
Hounie, Jorge G. 10868
Luna, Eduardo 8037
Muradov, R. I.; et al. 13327
Ŝĭdenko, M. I.; et al. 10867

35L20 *Second order equations, boundary value problems*

Bubnov, B. A. 3169
Hudaverdiev, K. I. 740
Majda, Andrew (13337)
Miyatake, Sadao 3170
Nahušev, A. M. 5633
von Wahl, Wolf 5634
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 740

35L25 *Higher order equations, general*

Bony, J. M.; et al. 741
Ivriĭ, V. Ja. 3171,3172,10869
Schapira, P.; et al. 741
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionnelle. Deux journées p-radonifiantes 741

35L30 *Higher order equations, initial value problems*

Bresters, D. W. 10870
Gasca González, Mariano 10871,10872
Leray, J. 10873
Mizohata, Sigeru (701)
Ohya, Yujiro 10874
Petkov, Veselin M. 743

35L30 *Continued*

Shiota, Masahiro 742
(Volevič, L. R.) 10873
Collection: Petrovskiĭ, Ivan Georgievič (1901-1973) (I) 10873
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 10870

35L35 *Higher order equations, boundary value problems*

Alinhac, S. 3173
Drehmann, H.; et al. 10875
Haimovici, Adolf (3137)
Sakamoto, Reiko 744,10876
Wakabayashi, Seiichiro 3174
Werner, P.; et al. 10875

35L40 *First order systems, general*

Jeffrey, A. *5635

35L45 *First order systems, initial value problems*

Alinhac, Serge *8038
Petkov, V. M. 3175
Yamahara, Hideo 8039
Zaĭtov, F. A. 5636

35L50 *First order systems, boundary value problems*

Andrjan, A. A. 745
Gol'dberg, V. N. 746
Langan, Thomas J. 10877
Shirota, Taira 10878
Fourier integral operators and parital differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) 10878

35L55 *Higher order hyperbolic systems*

Berzin, Robert (1322a-b)
Gourdin, Daniel 8040
Hughes, Thomas J. R.; et al. 8041
Kadykenov, B. M. 5637
Kato, Tosio; et al. 8041
Marsden, Jerrold E.; et al. 8041
Ptašnik, B. Ĭ. 747
Vaĭnberg, B. R. 3176
Mathematical methods, and physical and mechanical fields, No. 2 747

35L60 *Nonlinear equations and systems, general*

Aliev, A. B.; et al. (669)
Ebihara, Yukiyoshi 3177
Jakubov, S. Ja.; et al. (669)
Malgarini, Giorgio 5638

35L65 *Conservation laws* [*See also* 76.49.]

Donato, Andrea 3178
Hanyga, A. (4362)
Liu, Tai Ping 5639

35L99 *None of the above, but in this section*

Arena, Orazio; et al. (696)
Chambers, Ll. G. 10879
Daleckiĭ, Ju. L.; et al. 10880
Fadeeva, E. A.; et al. 10880
Gal'pern, S. A. (3142)
Littman, Walter; et al. (696)
Collection of articles dedicated to the memory of Ivan Georgievič Petrovskiĭ (1901-1973), I (3142)

35M05 Equations and systems of mixed type (Tricomi, etc.) (For degenerate types, elliptic, see 35Jxx, hyperbolic, see 35Lxx, etc.)

Azovskiĭ, V. V. 13329
Benevento, Maria L.; et al. (8019)
Bruno, Teresa; et al. (8019)
Bubnov, B. A. 748
Castellano, Laura; et al. (8019)
Dosiev, A. A. 5640
Egorov, I. E. 10881
Eldesbaev, T. (768)
Favini, Angelo (10783)
Hačev, M. M. 749
Karatoprakliev, G. D. 10882
Kree, Paul (11412)
Kuz'min, A. G. 13330,13331
Mengzijaev, B.; et al. 3180
Mišenkova, T. A. 5641
Nadzafov, H. M. 750
Nahušev, A. M. (13508)
Nurubloev, M. 3179
Popivanov, Nedju I. 5642
Salahitdinov, M. S.; et al. 3180
Samedov, N. I. 10883

35Nxx Overdetermined systems

35N05 *Constant coefficients*

Ėskin, M. I. 3181
Landucci, Mario (5504)
Rapp, A. (5503)
Solonnikov, V. A. 10884
Investigations on linear operators and the theory of functions, V 10884
Séminaire Pierre Lelong (Analyse), Année 1974/75 (5503)

35N10 *Variable coefficients, general*

Andreotti, A. (13137)
Hill, C. Denson 13332
Kashiwara, M. (3770)
Kashiwara, Masaki; et al. (8747,13113)
Kawai, Takahiro (3767)
Kawai, Takahiro; et al. (8747,13113)
Sato, Mikio; et al. (8747)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13137)
Colloque International C.N.R.S. sur les Équations aux Dérivées Partielles Linéaires (Orsay, 1972) (3770)
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) 13332
Hyperfunctions and pseudo-differential equations (8747)

35N15 *$\bar{\partial}$-Neumann problem and generalizations; formal complexes* [*See also* 58G05.]

Andreotti, Aldo (8753,13137)
Andreotti, A.; et al. (8754,11404)
Badji, Chérif (601a-c,7848)
Derridj, Maklouf; et al. (1312)
Guillemin, Victor (14007)
Hill, C. D.; et al. (8754,11404)
Kohn, J. J. (3005)
Łojasiewicz, S.; et al. (8754,11404)
Mackichan, B.; et al. (8754,11404)
Raboin, Pierre (6181)
Sweeney, W. J. (1313)
Tartakoff, David S.; et al. (1312)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13137)
Complex analysis (Centro Internaz. Mat. Estivo, I Ciclo, Bressanone, 1973) (3005)
Partial differential equations (Proc. Sympos. Pure Math. Vol. XXIII) (14007)

35Pxx Spectral theory and eigenvalue problems (See also 47Axx, 47Bxx, 47F05.)

35P05 *General spectral theory*

Brusencev, A. G. 13333
Danet, Pierre (6212)
Eastham, M. S. P.; et al. (5614)
Evans, W. D. 5643
Evans, W. D.; et al. (5614)
Gorbačuk, M. L.; et al. (10735)
Gorbačuk, V. I.; et al. (10735)
Goulaouic, C. 8042
Jafaev, D. R. (9414)
Levitan, B. M. 10885
McLeod, J. B.; et al. (5614)
Murtazin, H. H. 10886
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 10885
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle 8042
Spectral theory and asymptotics of differential equations (Proc. Conf., Scheveningen, 1973) 5643

35P10 *Completeness of eigenfunctions, eigenfunction expansions*

Alimov, Š. A. 751
Ismatov, M. 13334
Moiseev, E. I. 10887
Serov, V. S. 13335
Stewart, H. Bruce (2044)

35P15 *Estimation of eigenvalues, upper and lower bounds*

(Agmon, S.) 10888
Amann, Herbert (721)
Aubin, Thierry (1321)
Bandle, Catherine (694)
Bandle, Catherine; et al. 8043
Donsker, M. D.; et al. 13336
Gilkey, Peter B. (11238)
Hersch, Joseph; et al. 8043
Horgan, Cornelius O.; et al. 5644
Jansen, K.-H.; et al. 10888
Kalf, H.; et al. 10888
Majda, Andrew 13337
Payne, L. E.; et al. 752
Philippin, Gérard A. 13338
(Simon, B.) 10888
Sperb, R. P.; et al. 752
Varadhan, S. R. S.; et al. 13336
Wheeler, Lewis; et al. 5644

35P20 *Asymptotic distribution of eigenvalues and eigenfunctions*

Alekseev, A. B.; et al. 8044
Arutjunjan, T. N. 10889,10890
Birman, M. Š.; et al. 8044
Boĭmatov, K. H. 10891
Chicco, Maurizio 3182
Duistermaat, J. J.; et al. (11416)
Guillemin, V. W.; et al. (11416)
Kannai, Yakar 3183
Koževnikov, A. N. 10892
Krahnov, A. D. (8757)
Métivier, Guy 13339
Pastur, L. A. 10893
Pham The Lai 753,754,10894
Ralston, J. V. (14003)
Roĭtburd, V. L. 10895
Šnirel'man, A. I. (1326)
Ton, Bui An 755
Vaĭnberg, B. R. (3176)
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) (11416)
Mathematical physics and functional analysis, No. V 10893

35P25 *Scattering theory* [*See also* 47A40.]

Bondy, Daniel A. 8045
Cooper, Jeffery; et al. 3184
Eckardt, Klaus-Jürgen 8046
Goodhue, William L. 3185
Jörgens, K. 8047
Kako, Takashi 756
Kitada, Hitoshi 10896
Kuroda, S. T. 757,5645,13340
Lax, Peter D.; et al. 758
Majda, Andrew 13341-13343
Matsumura, Akitaka 8048
Menzala, Gustavo Perla 8049
Najman, B. (6774)
Niźnik, L. P. 10897
Pearson, D. B. 8050
Phillips, Ralph S.; et al. 758
Strauss, Walter A.; et al. 3184
Thomas, Lawrence E. (6783)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13340
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 8047
Linear and nonlinear boundary value problems 10897

35P25 *Continued*

Spectral theory and differential equations (Proc. Sympos., Dundee, 1974; dedicated to Konrad Jörgens) 5645

35P99 *None of the above, but in this section*

Bareket, Miriam 3186
Sigal, I. M. 13344,13345
Simon, Barry 5646,5647
Temam, R. 759

35Qxx Special equations and problems (See also 35J05, 35K05, 35L05.)

35Q05 *Euler-Poisson-Darboux equation and generalizations*

Benachour, Saïd (13279)
Braaksma, B. L. J.; et al. 10898
Carroll, Robert W. (11415a-b)
Mariĉev, O. I. 10899
Radžabov, N. 760
de Snoo, H. S. V.; et al. 10898
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 10898

35Q10 *Navier-Stokes equation [See also 76.35.]*

Biroli, Marco 8051
Comincioli, Valeriano (1869)
Fursikov, A. V.; et al. (3166)
Gorovaja, E. N.; et al. (4143)
Heywood, John G. 761,13346
Ladyženskaja, O. A.; et al. 13347
Pinsky, Mark A. 10900
Raškinienė, Dana (14406)
Rivkind, V. Ja.; et al. (4143)
(Schnute, Jon) 3187
Shapiro, Victor L. 13348
Shinbrot, Marvin 3187
Solonnikov, V. A. 3188
Solonnikov, V. A.; et al. 13347
Višik, M. I.; et al. (3166)
Boundary value problems of mathematical physics and related questions in the theory of functions, 7 3188
Boundary value problems of mathematical physics, and related questions of the theory of functions, 8 13347
Collection of articles dedicated to the memory of Ivan Georgievič Petrovskiĭ (1901-1973), I (3166)
Problems of mathematical analysis, No. 5 (4143)

35Q99 *None of the above, but in this section*

Abdulloev, Kh. O.; et al. 762
Arena, Orazio; et al. (696)
Bardos, Claude 13349
Berger, M. S.; et al. 10901
Berhin, P. E. 8052
Bogoljubskiĭ, I. L.; et al. 762
Bois, Pierre-Antoine 13350
Braaksma, B. L. J. 8053
Bubnov, B. A. 3189
Bullough, R. K.; et al. 8054
Caudrey, P. J.; et al. 8054
Eilbeck, J. C.; et al. 8054
El'jaševič, M. M.; et al. 5648
Estabrook, Frank B.; et al. 3191
Fraenkel, L. E.; et al. 10901
Fridman, A. H.; et al. 5648
Galdi, Giovanni P. 8055
Gibbon, J. D.; et al. 8054
Greig, I. S.; et al. (6514)
Kametaka, Yoshinori (10861)
Kodama, Yuji; et al. (14611)
Kričever, I. M. (1298a-b)
Krickaja, S. S.; et al. 3190
Lax, Peter D. 13351
Leznev, V. G. 13352
Littman, Walter; et al. (696)
Mahankov, V. G.; et al. 762
Morris, J. Ll.; et al. (6514)
Nelson, Stuart (3140)
Ono, Hiroaki 5649
Rauch, Jeffrey 13353
Rogač, D. I.; et al. 3190
Sokolova, E. G. 13354
Tobol'cev, A. M. 763,764
Torelli, Alessandro 5650
Wadati, Miki; et al. (14611)
Wahlquist, Hugo D.; et al. 3191
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 8053
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 8054
Studies in contemporary problems of summability and approximation of functions, and their applications 3190

35Rxx Miscellaneous topics (For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE's, see 60H15.)

35R05 *Equations with discontinuous coefficients or data*

Collatz, L. (7994)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) (7994)

35R10 *Difference-partial differential equations, equations with time lag*

Aliev, N. M. 13355
Azamatov, S. Ž. 3192
Džoldošev, O. D.; et al. (695)
Gasanov, K. K. 5651
Mahmudov, A. P.; et al. (8201)
Ragimov, M. B.; et al. (8201)
Szarski, J. 765
Temirbaev, K.; et al. (695)
Tobol'cev, A. M. (763,764)
Travis, C. C.; et al. 3193
Vostrov, V. K.; et al. (694)
Webb, G. F.; et al. 3193
Collection of candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III (695)
Studies of special questions in the theory of differential equations 13355

35R15 *Equations on function spaces*

Dwyer, Thomas (6180)
Lascar, B. (8279)
Višik, M. I. 3194
(Višik, M. I.) (8279)
Séminaire Pierre Lelong (Analyse), Année 1973-1974 (8279)

35R20 *Operator equations, general [See also 34G05,47A50,47H15.]*

Aliev, A. B.; et al. (669)
Charrier, Pierre; et al. 10902
Daleckiĭ, Ju. L.; et al. (10880)
Dunninger, D. R.; et al. (10781)
Fadeeva, E. A.; et al. (10880)
Fattorini, H. O. (10782)
Favini, Angelo (8349)
Jakubov, S. Ja.; et al. (669)
Jurčuk, N. I. (766)
Lagnese, John (7988)
Levine, Howard A.; et al. (10781)
Lumer, Gunter 8056
Mamedov, Ja. D.; et al. (672a-b)
Showalter, R. E. 3195,3196,(10794)
Sohr, H. 8057
Veliev, M. A.; et al. (672a-b)
Vivaldi, Maria-Agostina; et al. 10902
Collection: Brelot, Marcel 8056
Methoden und Verfahren der mathematischen Physik, Band 16 8057

35R30 *Inverse problems (undetermined coefficients, etc.)*

Abdullaeva, G. A. 10903
Anikonov, Ju. E. (8036)
Beznoščenko, N. Ja. (8027)
Buhgeĭm, A. L.; et al. 767
Chavent, Guy (4752)
Eldesbaev, T. 768
Isakov, V. M. 5652,8058,10904
Jahno, V. G.; et al. 767
Niznik, L. P. (10897)
Identification of parameters in distributed systems (Joint Automat. Control Conf., Univ. Texas, Austin, Tex., 1974) (4752)
Linear and nonlinear boundary value problems (10897)

35R99 *None of the above, but in this section*

Fursikov, A. V.; et al. (3166)
Višik, M. I.; et al. (3166)
Collection of articles dedicated to the memory of Ivan Georgievič Petrovskiĭ (1901-1973), I (3166)

35Sxx Pseudodifferential operators (See also 47G05.)

35S05 *General theory*

Anderson, Karl G. (13559)
Boutet de Monvel, L. (1315,11409)
Cardoso, Fernando (13268)
Demidov, A. S. (3771)
Egorov, Ju. V. 769,770
Hounie, Jorge G. (10868)
Ivriĭ, V. Ja. (3171,3172)
Kashiwara, Masaki; et al. (8749)
Kawai, Takahiro; et al. (8749)
Oshima, Toshio; et al. (8749)
Nourrigat, Jean 10905
Roĭtburd, V. L. (10895)
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) (11409)
Functional analysis and applications (Proc. Sympos., 1972) (13559)

35S10 *Initial value problems*

Baouendi, M. S.; et al. 13356
Goulaouic, C.; et al. 13356
Sato, Mikio (8748)
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle (8748)

35S15 *Boundary value problems*

Doktorskiĭ, R. Ja. (3150)
Myškis, P. A. (14011)
Sternin, B. Ju. (14013)

39-XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS

39-06 *Collection of papers; proceedings of conferences*

Dhombres, J. G. (2745)
(Gołąb, Stanisław) *8059
Équations fonctionnelles *3197
Functional equations *3197,*8059
International Conference on Functional Equations (Zakopane, 1967) *8059
Quasigroups *3197
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) *3197

39A05 *Finite differences, general*

(Bertin, E. M. J.) (10639)
Jaiswal, D. V. 13357
Mastrangelo-Dehen, Michèle (10639)
Séminaire de Théorie du Potential (14e année: 1970/71) (10639)

39A10 *Difference equations*

Aĭzikovič, A. A. 13358
Coleman, Bernard D.; et al. (9710a-b)
Comstock, Craig; et al. 13359
De Blasi, F. S.; et al. 8060
Diamond, Phil 5653
Dutčak, B. I.; et al. 8061
Hochstadt, Harry 10906
Hsiao, George C.; et al. 13359
Kirjackis, E. 10907

39A10 *Continued*

Kišakevič, Ju. L. 5654
Klatte, R. (14408)
Konstantinov, M. M. 5655
Košeleva, O. N.; et al. (11823)
Mihaĭlec', B. M.; et al. (1674)
Pachpatte, B. G. 8062
Pap, Endre 3198
Peljuh, G. P. 771
Renninger, George H.; et al. (9710a-b)
Savčenko, L. I.; et al. (1674)
Schinas, J.; et al. 8060
Shukla, D. P. (5515)
Sinic'kiĭ, L. A.; et al. 8061
Talpalaru, Pavel (13692)
Tarnopol's'kiĭ, V. G. 10908
Valeev, K. G.; et al. (11823)
Dynamical systems, and questions on the stability of the solutions of differential equations 771
Methods for the quantitative and qualitative study of differential and integral equations 5654
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 13359
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) (14408)

39A12 *Discrete analysis of topics in analysis*

Hušbaktov, Š. D. (5475)

39A15 *Functional equations, general* [*For functional-differential equations, see* 34Jxx.]

Basili, Luciano 10909
Belousov, V. D.; et al. (10463)
Bongiorno, Fulvio 3199
Čeban, A. M. (10464)
Chiappini Santi, Elisabetta 3200,3201
Czerwik, Stefan 5656
(Ger, Roman) (8448)
Golovko, I. A. (10465)
Götz, Walter 13360a-b
Kannappan, Pl.; et al. 8063
Kučko, L. P. (6186)
Kuczma, Marek (8448)
Levin, J. J.; et al. (5669)
Livšic, E. S.; et al. (10463)
Matkowski, Janusz 772
Mittal, D. P. 3202
Moszner, Zenon 773
Rathie, P. N.; et al. 8063
Shea, D. F.; et al. (5669)
Tabor, Józef 5657
Walter, Wolfgang 5658
Mathematical physics and functional analysis, No. V (6186)
Ordinary differential equations: 1971 NRL-MRC Conference (5669)
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 110, Quaderno No. 1 3200
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 135, Quaderno No. 5 3201

39A20 *Classical functional equations*

Czerwik, Stefan 5659
Rimán, János 8064
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) 8064

39A25 *Linear and multilinear functional equations*

Ebanks, Bruce R. (2333)
Hemdan, H. T. 13361
Istrăţescu, Vasile I. 3203
Kuczma, Marek 10910
Kwiecień, Sabina 5660
Seneta, E. 3204
Zdun, Marek Cezary 3205

39A30 *Functional equations in several variables, systems*

Bilinski, Stanko (1065)
Daróczy, Z. (9848)
Mittal, D. P. (4822)
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) (9848)

39A35 *Matrix functional equations*

Kareńska, Zofia 10911
Mahmudov, A. P.; et al. 5661
Ragimov, M. B.; et al. 5661
Rao, C. Radhakrishna (8945)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (8945)

39A40 *Functional equations on abstract structures*

Barbançon, G.; et al. 774,3206
Berg, Lothar 10912
Boonyasombat, Virool; et al. 774,3206
Dhombres, Jean (7680)
Jung, C. F. K.; et al. 774,3206
Jung, F. R.; et al. 774,3206
Kannappan, Pl. (7686)
Robinson, D. A. (2860)
Sljusarčuk, V. E. 775
Smajdor, Wilhelmina 3207
Subba Rao, V.; et al. 3208
Subrahmanyam, P. V.; et al. 3208
Analytic methods for the study of the solutions of nonlinear differential equations 775
Collection: Bhatnagar, P. L. (7686)

40—XX SEQUENCES, SERIES, SUMMABILITY

40-01 *Elementary exposition (collegiate level)*

Bononcini, Vittorio E.; et al. *5662
Forlani, Agostino; et al. *5662

40-02 *Advanced exposition (research surveys, etc.)*

Borel, Émile *8065
(Critchfield, Charles L.) *8065
Henstock, Ralph (*7725)
Kangro, G. F. 3209
(Vakar, Anna) *8065
Vorobĭov, M. M. *10913
Bibliography: Summability methods 3209
Mathematical analysis, Vol. 12 3209

40Axx Convergence and divergence of infinite limiting processes

40A05 *Convergence and divergence of series and sequences*

Anderson, J. A. 13362
Barbieri, Francesco; et al. (11260)
Bruckman, P. S.; et al. 10914
Facchinetti, Gisella; et al. (11260)
Glasser, M. L.; et al. 10915
Good, I. J.; et al. 10914
Grimeisen, Gerhard (10543)
Hall, Marshall, Jr.; et al. 10916
Hénon, M. 10917
Klamkin, M. S.; et al. 10915
Mutafčiev, D. Ž. 8066
Naess, Arvid 8067
Safoev, M. D.; et al. 13363
Sayer, F. P. 5663
Sengupta, S. B. 8068
Širinbekov, M.; et al. 13363
Vaaler, Jeffrey D.; et al. 10916

40A10 *Convergence and divergence of integrals*

Nutfullin, Š. N. 8069
Wynn, P. 3210

40A15 *Convergence and divergence of continued fractions* [*See also* 30A22.]

Dawson, David F. 5664
Pandikow, W.; et al. 777
Roach, F. A. 776
Sveklo, L. V. 13364
Vuza, Dan 8070
Zajta, A. J.; et al. 777

40A20 *Convergence and divergence of infinite products*

Slipenčuk, K. M. 8071,8072
Studies in contemporary problems of summability and approximation of functions, and their applications 8071,8072

40B05 Multiple sequences and series

Pidgaĭko, A. I. 8073
Studies in contemporary problems of summability and approximation of functions, and their applications 8073

40Cxx General summability methods

40C05 *Matrix methods*

Bosanquet, L. S.; et al. 778
Brezinski, C. (9034)
Chandrasekhara Rao, K. 3211
Gingold, H. 10918
Keagy, Thomas A. 13365
Russell, D. C.; et al. 778
Sabo, D. 8074
Siddiqi, Rafat N. 779

40C10 *Integral methods*

Novikova, N. S.; et al. 3212
Taberski, R. (13452)
Udalaja, N. I.; et al. 3212
Studies in contemporary problems of summability and approximation of functions, and their applications 3212

40C15 *Function theoretic methods (including power series methods and semicontinuous methods)*

Beljaev, V. A. 8075
Bustoz, Joaquin; et al. 5665
Deák, J. (5446)
Gingold, H. 10919
Wright, Donald; et al. 5665

40C99 *None of the above, but in this section*

Lazić, Milivoje G. 3213,3214

40Dxx Direct theorems on summability

40D05 *General theorems*

Mishra, B. P.; et al. 10920
Singh, D.; et al. 10920

40D10 *Tauberian constants and oscillation limits*

Sherif, Soraya 8076

40D15 *Convergence factors and summability factors*

Peyerimhoff, A. 780
Soomer, V. 5666
Ziv, Abraham 5667

40D20 *Summability and bounded fields of methods*

Petersen, G. M. 8077

40D25 *Inclusion and equivalence theorems*

Borwein, D.; et al. 5668
Cass, F. P.; et al. 5668
Kumar, Ashok 13366

40E05 Tauberian theorems

Borwein, D.; et al. 781,13367
Burljaĭ, M. F. 13368
Lee, Kin Chun 782
Levin, J. J.; et al. 5669
Misra, O. P. (870)
Novikova, N. S. 8078
Rajagopal, C. T. 3215
Schmaal, Albertus; et al. (11464)
Shea, D. F.; et al. 5669
Smet, E.; et al. 13367
Staffans, Olof J. 10921
Stam, Aart Johannes; et al. (11464)
Tanaka, Chuji 783
de Vries, Trienco; et al. (11464)
Watson, B.; et al. 781
Ordinary differential equations: 1971 NRL-MRC Conference 5669
Studies in contemporary problems of summability and approximation of functions, and their applications 8078

40F05 Absolute and strong summability

Ghatwary, G. K. 8079
Udalaja, N. I. 784
Žavoronkov, V. D.; et al. 8080
Žohov, A. L.; et al. 8080
Studies in contemporary problems of summability and approximation of functions, and their applications 784

40Gxx Special methods of summability

40G05 *Cesàro, Euler, Nörlund and Hausdorff methods*

Chandra, Prem 785
Choudhary, R. S.; et al. (10970)
Gavin, Lloyd A. 786
Gupta, D. P.; et al. (10970)
Hensz, Ewa 787
Parasher, V. K. 10922a-b
Rajagopal, C. T. 788
Talanova, Z. P. 13369
Tripathy, N. 3216
Collection: Bompiani, Enrico 785

40G10 *Abel, Borel and power series methods*

Čelidze, M. V. 789
Israpilov, R. B. 3217
Yadav, Sarjoo Prasad 13370

40G99 *None of the above, but in this section*

Gur'janova, K. N.; et al. (569)
Kozmanova, A. A.; et al. (569)
Mishra, B. P.; et al. 13371
Singh, Dinesh; et al. 13371
Tzimbalario, Jean 790

40H05 Functional analytic methods in summability

Beekmann, Wolfgang 5670
Flachsmeyer, Jürgen; et al. 10923
Jakimovski, A.; et al. 10924
Maddox, I. J.; et al. 5671
Roles, J. W.; et al. 5671
Russell, D. C.; et al. 10924
Sharma, N. K. 10925
Terpe, Frank; et al. 10923

40J05 Summability in abstract structures (See also 43A55.)

Vera, G. 10926

41—XX APPROXIMATIONS AND EXPANSIONS (For all approximation theory in the complex domain, see 30A80 and 30A82; for all trigonometric approximation and interpolation, see 42A08, 42A12.)

Triebel, Hans (922)

41-02 *Advanced exposition (research surveys, etc.)*

Ansorge, R. (11819)
Cuculescu, Ion (*11723)
(Diamond, Ainsley) *10927
(Hille, Einar) *10927
Holmes, Richard B. (*8381)
Sansone, G. *10927
Shapiro, Harold S. *791
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) (11819)

41-03 *Historical*

Gusak, A. A. *5672

41-06 *Collection of papers; proceedings of conferences*

(Chui, C. K.) *5673
(Lorentz, G. G.) *5673
(Schumaker, L. L.) *5673
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) *5673
International Symposium on Approximation Theory (Univ. Texas, Austin, Tex., 1976) *5673

41A05 *Interpolation [See also 42A12 and 65D05.]*

Barnhill, R. E.; et al. (9038)
Berman, D. L. 792
Filjukov, S. I. 8081
Gregory, J. A.; et al. (9038)
Jetter, Kurt 10928,13372
Kel'zon, A. A. 13373
Lorentz, G. G. 3218
Mathur, K. K.; et al. 10930
Matušů, Josef; et al. (11732)
McLeod, R. (14308)
Mills, T. M.; et al. 3219
ter Morsche, Hennie 3220
Nevai, G. P. 13374,13375
Novák, Josef; et al. (11732)
Passow, Eli 5674
Peluso, R. I. 13376
Prasad, J.; et al. 8082
Privalov, A. A. 8083,10929
Sánta, J. 3221
Saxena, R. B.; et al. 8082,10930
Sharma, A. 8084
Stavskiĭ, M. Š. (10216,10217)
Van Sant, T. 3222
Varma, A. K.; et al. 3219
Vértesi, P. 3223,8085,10931
Zeller, K. 3224
Zelmer, G. 13377
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) 13372,13374
Proceedings of the Conference on the Constructive Theory of Functions (Approximation Theory) (Budapest, 1969) 8084
Questions on mathematical analysis (10216,10217)
Spline-Funktionen (Vorträge und Aufsätze, 1973) 3220
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 3224

41A10 *Approximation by polynomials [For approximation by trigonometric polynomials, see 42A08.]*

Amir, D.; et al. 8086
Bojanov, Borislav D.; et al. 13378
Botto, M. A. 793
Cvetanov, Mitko; et al. 13378
Erdős, P.; et al. 13379
Ferguson, Le Baron Otis; et al. 5675
Freud, G.; et al. 13380
Freud, Géza 794,13381
Ganelius, Tord; et al. 795
Giroux, A.; et al. 13380
von Golitschek, Manfred; et al. 5675
Ho Tho Cao 8087
Johnson, Darell J. 796
Johnson, P.; et al. (2913)
Kaper, Hans G.; et al. 797
Kimchi, E.; et al. 13382
Kioustelidis, John B. 10932
Kjurkčiev, Nikolaĭ; et al. 10933
Leaf, Gary K.; et al. 797
Leviatan, D. 13383
Lindeman, Arthur J.; et al. 797
Newman, Donald; et al. 795
Nicolcheva, M. G. 8088
Nielson, G. M.; et al. 13384
Rahman, Q. I.; et al. 13380
Raymon, Louis 798
Reddy, A. R.; et al. 13379
Rice, John R. (1542)
Richter-Dyn, N.; et al. 13382
Riesenfeld, R. F.; et al. 13384
Romero Márquez, Juan Bosco 13385
Sendov, Bl. 3225
Sendov, Blagovest; et al. 10933
Sklar, A.; et al. (2913)
Stancu, D. D. 3226
Szabados, J. 3227
Talbot, A. 13386
Vértesi, P. 10934
Vlasovec, N. N. 5676
Weiss, N. A.; et al. 13384
Whitley, Robert 10935
Ziegler, Z.; et al. 8086
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) (1542)
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 794,796,798
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 3225

41A15 *Spline approximation*

Babenko, V. F.; et al. 8089
Barrar, R. B.; et al. 799
Baum, Alan M. 3228
Baumeister, J. 10936
Bercun, V. N.; et al. (1644)
Böhmer, Klaus 5677
de Boor, Carl 3229,5678,10937,13387
Braess, Dietrich 5679
Chui, C. K.; et al. 10938,10939
Ciesielski, Z. 5680
Daniel, James W. 800
Delvos, Franz-Jürgen; et al. 801,3230
Demko, Stephen 3231
Doronin, V. G.; et al. 802
Greville, T. N. E.; et al. 13388
Grišin, A. M.; et al. (1644)
Hantzschmann, Karl 13389
Haußmann, Werner; et al. 13390
Heindl, Gerhard (6454)
Hilgers, Hubert; et al. (4066)
Jetter K. (9056)
Joly, Jean-Luc 8090
Jupp, D. L. (9043)
Lee, S. L. 8091
Lee, S. L.; et al. 3232,10940
Ligun, A. A.; et al. 802,8089
Lin, Miao Ng 8092
Loeb, H. L.; et al. 799,(4066)
Malinka, Gert; et al. 3230
Mansfield, Lois 3233
Martinelli, M. R. (9044)
Meinardus, Günter; et al. 10941
Merz, Gerhard; et al. 10941
Meyer, W. Weston; et al. 10942
Münch, Heinz Josef; et al. 13390
Popov, V. A.; et al. 13391
Rice, John R. 13392
Richards, F. B.; et al. 13394
Riemenschneider, S. D. 8093
Ropela, S. 5681
Rosenblatt, Murray 5682
Sard, Arthur 3234
Schaback, Robert 3235
Scheffold, Egon 3236
Scherer, Karl 8094
Schloßer, Karl-Heinz; et al. 801
Schoenberg, I. J. *8095,13393
Schoenberg, I. J.; et al. 13388,13394
Schumaker, Larry L. 8096
Sendov, Bl.; et al. 13391
Sharma, A.; et al. 3232,5683,10940,10943,13388
Smith, P. W.; et al. 10938,10939
Subbotin, Ju. N. 13395
Thomas, Donald H.; et al. 10942
Tippenhauer, U. 5684,13396
Tzimbalario, J.; et al. 5683,10940,10943
Ward, J. D.; et al. 10938,10939
Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) 13391
Linear operators and approximation 13395
Optimization (Proc. Sem., Austral. Nat. Univ., Canberra, 1971) (9043)

41A15 *Continued*

Spline-Funktionen (Vorträge und Aufsätze, 1973) 801, 3230,3234-3236,(4066), 5677,(6454),8094, (9056),10941,13390
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 3231,5678,10936,10943,13392
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 5684

41A20 *Approximation by rational functions*

Blatt, Hans-Peter 803
Braess, Dietrich 13397
de Bruin, M. G. 13398
Chui, Charles K. (14313)
Ellacott, S.; et al. (1563)
Erdős, Paul; et al. 13399
Ěterman, I. I. 8097
Gallucci, Michael A.; et al. 13400
Jones, William B.; et al. 13400
Karlsson, Johan; et al. 3237
Luke, Yudell L. 13401
Newman, Donald J.; et al. 5685,13402
Petrushev, P. P. 13403
Reddy, A. R.; et al. 5685,13399,13402
Rovba, E. A. 3238
Saff, E. B.; et al. 804
von Sydow, Björn; et al. 3237
Varga, R. S.; et al. 804
Williams, Jack; et al. (1563)
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) (14313)
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 803,804

41A25 *Rate of convergence, degree of approximation*

Galan, D. M. 8098
v. Golitschek, Manfred 13404
Gorjačev, A. P. 5686
Grundmann, Axel 3239
Iliev, G. L.; et al. (831)
Jones, Douglas H. 13405
Knoop, H.-B. 5687
Leviatan, Dany 5688
Metcalf, F. T. 13406
Popov, V. A.; et al. (831)
Linear operators and approximation, II 5688

41A30 *Approximation by other special function classes*

Bagijan, R. A. 805
Buckholtz, J. D.; et al. (5534)
Butzer, P. L.; et al. 5689
Collatz, L. 3240
Gabisonija, O. D. (13459)
Horoško, M. P. 5690
Kas'janjuk, S. A. 806
Kolbe, W.; et al. 5689
Ligun, A. A. (489)
Ling, William H. 807
Nessel, R. J.; et al. 5689
Radovskiĭ, V. D. 808
Shaw, J. K.; et al. (5534)
Ugulava, D. K. (1544)
Zalik, R. A. 8099
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 3240
Questions on numerical mathematics and programming (1544)
Studies in contemporary problems of summability and approximation of functions, and their applications 5690

41A35 *Approximation by operators (in particular, by integral operators)*

Baskakov, V. A. 3241,3242
DeVore, Ronald A. *8100
Drožžina, L. V. 5691
Gasanov, G. M.; et al. 809
Gubanov, G. P.; et al. 810
Jacenko, N. Ja.; et al. 810
Levikson, Benny 8101
Li, Tien Yien 811
Popov, Vasil A.; et al. 809
Svin'in, S. F. 10944
Tamura, Syuji; et al. 13407
Yoshinaga, Kyōichi; et al. 13407
Studies in contemporary problems of summability and approximation of functions, and their applications 810

41A40 *Saturation classes*

Bavinck, H. 3243
Ditzian, Z.; et al. 8102,10945
Junggeburth, J. (5715)
Madrahimov, H. 13408
May, C. P.; et al. 8102,10945
Nishishiraho, Toshihiko 3244
Szabados, József 3245
Vértesi, P. 812
Linear operators and approximation, II 3245

41A45 *Approximation by arbitrary linear and nonlinear expressions; widths and entropy*

Bronšteĭn, E. M. 3246
Čakalov, V. 8103
Maĭorov, V. E. 10946
Ruban, V. I. 5692
Stepanec', O. I. 8104
Videnskiĭ, V. S. 813
Constructive theory of functions (Proc. Internat. Conf., Varna, 1970) 8103
Studies in contemporary problems of summability and approximation of functions, and their applications 5692

41A50 *Best approximation (Čebyšev, etc.)*

Albrand, Hans-Jürgen 8105
Berens, H.; et al. 10947
Breckner, Wolfgang W. 8106
Dolženko, E. P.; et al. 13409
Dunham, Charles B. 5693
Ehle, Byron L. 3247
Eisenberg, Bennett 5694
Elliott, D. (9045)
Fletcher, R.; et al. 5695
Grant, J. A.; et al. 5695
Gubanov, G. P.; et al. 3248
Hebden, M. D.; et al. 5695
Henry, Myron S.; et al. (1612)
Hettich, R. 3249
Holland, A. S. B.; et al. 816,3250
Jacenko, N. Ja.; et al. 3248
Kahane, Jean-Pierre 814
Kammler, David W. 13410,13411
Kamzolov, A. I. 13412
Korniĭčuk, M. P. 13413
Lam, Binh 13414
Levin, M. I. 8107
Lim, Kim Pin 13415
Lorentz, G. G.; et al. 10947
März, Roswitha (14315)
Meinardus, G.; et al. 10948
Moncibovic, B. R.; et al. 13416
Mond, B. 10949
Neizvestnyĭ, M. M. (14316)
Passow, Eli; et al. 10950
Phillips, G. M.; et al. 815
Popov, B. A. 8108
Popov, B. A.; et al. 13416
Popov, Vasil A. 13417
Potapov, M. K. 3251
Ricci, Paolo Emilio (5519)
Roulier, John A. 3252
Roulier, John A.; et al. 10950
Rubel, L. A.; et al. (7792)
Sahney, B. N.; et al. 815,816,3250
Schaback, R. 13418
Schwartz, W. (1543)
Sendov, Bl. 817
Sevast'janov, E. A.; et al. 13409
Shields, A. L.; et al. (7792)
Šmerk, Jiří 818
Taylor, G. D.; et al. 10948
Tzimbalario, J.; et al. 3250
Videnskiĭ, V. S. 13419
Wiggins, Kenneth L.; et al. (1612)
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) 13418
Collection: Schmidt, Adam 8105
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) (9045)
Latvian mathematical yearbook, 17 (14316)
Linear operators and approximation, II 814
Mathematical methods, and physical and mechanical fields, No. 2 13416
Mathematics and theoretical mechanics, VI 8107
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln (1543)
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 817
Proceedings of the Conference on the Constructive Theory of Functions (Approximation Theory) (Budapest, 1969) 3251
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 13413
Studies in contemporary problems of summability and approximation of functions, and their applications 3248
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 815,816

41A55 *Approximate quadratures*

Alhimova, V. M. 5696
Arro, V.; et al. 8112
Babenko, V. F. 5697
Barrow, David L.; et al. (1539)
Bojanov, Borislav D. 819,3253,5698
Braß, Helmut 820
Brutman, L. M. 8109
Busarova, T. N. 5699
Ěterman, I. I. 8110
Finlayson, H. C. 821
Forst, Wilhelm 10951
Freud, Géza 5700
Girsovits, J.; et al. 5701,8111,8112
Levin, M. I.; et al. 5701,8112
Luke, Yudell L. (4071)
Ramazanov, M. D. 13420
Sobol', I. N. *10952
Stroud, A. H.; et al. (1539)
Žamalov, Z. Ž. (11743)
Boundary value problems for differential equations, 3 (11743)
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 820
Studies in contemporary problems of summability and approximation of functions, and their applications 5696,5699
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary Alta., 1975; dedicated to the memory of Eckard Schmidt) (4071)

41A60 *Asymptotic approximations, asymptotic expansions (steepest descent, etc.)* [*See also* 30A84.]

Berkovits, Shimshon 10953
Ěterman, I. I. 8113
Filjukov, S. I. 8114
Geronimus, Ja. L. (13443)
Hristov, Hr. Ja.; et al. 5702
Riekstiņa, V. (13160)
Riekstiņš, E. 13421
Todorov, Todor D.; et al. 5702
Walton, J. R. 822
Wong, R. (3315)
Latvian mathematical yearbook, 17 (13160),13421

41A63 *Multidimensional problems*

Collatz, L. 3254
Fromm, Jens 8115
Karataev, R. N. 13422
Morozov, E. N. 5703
Wulbert, Daniel 823
Approximation theory (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1973) 823
Proceedings of the Conference on the Constructive Theory of Functions (Approximation Theory) (Budapest, 1969) 3254

41A65 *Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)*

Ahuja, G. C.; et al. 3255
Arestov, V. V. 3256,3257,8116
Bhola, H. L.; et al. 13428
Blatter, Jörg 13423

41A65 *Continued*

Bloom, Walter R. 5704
Braß, H. 824
Breckner, Wolfgang W. 10954
Cargo, G. T.; et al. (894)
Cheney, E. W. 5705
Cheney, E. W.; et al. (11044)
Das, P. C. 5706
Delvos, Franz-Jürgen; et al. 5707
Fakhoury, Hicham (13556)
Ferguson, Le Baron O.; et al. 8117
Franchetti, C.; et al. (11044)
Fujito, Isami 3258
Gopalan, R. 8118
Hallstrom, Alfred P. 8119
Henry, M. S.; et al. 8120
Kitto, W.; et al. 5708
Knoop, Hans-Bernd 10955
Knoop, Hans-Bernd; et al. 3259
Larkin, F. M. 3260
Lazarević, Ilija B. 5709
Lempio, F. (13684)
Leonte, Alex 825
Maĭorov, V. E. 826
Meinguet, Jean 10956
Nachbin, Leopoldo *3261
Narang, T. D. 13424
Narang, T. D.; et al. 3255
Nevesenko, N. V.; et al. (11035a-b)
Ošman, E. V.; et al. (11035a-b)
Pai, D. V. (3366)
Pinkus, Allan 13425
Pottinger, Peter; et al. 3259
Ropela, S. 5710
Rusk, Michael D.; et al. 8117
Schempp, Walter; et al. 5707
Schmidt, D.; et al. 8120
Sharma, P. L.; et al. 13428
Shisha, O.; et al. (894)
Smirnov, G. S. 13427
Sonntag, Yves 827
Stránská, C. 13428
Stummel, F. 828
Trehan, Swaran; et al. 3255
Ubhaya, Vasant A. (8211a-b)
Ul'janov, P. L. (3393)
Wulbert, D. E.; et al. 5708
Zamyslov, V. E. 10957
Application of functional analysis in approximation theory, No. 1 10957
Approximation of functions and operators 3256,3257,8116
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) 13423
Collection:
Bhatnagar, P. L. 3255
Lorentz, G. G. (II) 828
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln (13684)
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary Alta., 1975; dedicated to the memory of Eckard Schmidt) 3260,5705,8120
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 10956
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 824

42—XX FOURIER ANALYSIS

42-01 *Elementary exposition (collegiate level)*

Bononcini, Vittorio E.; et al. (*5662)
Forlani, Agostino; et al. (*5662)
Ščerbakova, V. M. *3262
(Silverman, Richard A.) *13429
Tolstov, Georgi P. *13429

42-02 *Advanced exposition (research surveys, etc.)*

Katznelson, Yitzhak (*10976)
Vorobĭov, M. M. (*10913)

42A04 *Trigonometric polynomials, inequalities, extremal problems*

Fil'štinskiĭ, V. A. 13430
Gencev, Todor (2963)
Ivanov, V. I. 829
Krall, H. L.; et al. 3263
Pichorides, S. K. (7398)
Sheffer, I. M.; et al. 3263

42A08 *Approximation by trigonometric polynomials*

Butzer, P. L.; et al. 830
Chandra, Prem 13431
Golinskiĭ, B. L. (8827)
Ho Tho Cao; et al. 5711
Iliev, G. L.; et al. 831
Ivanov, V. I. 832
Kis, O.; et al. 5711
Linnik, I. Ju. 10958
Logan, B. F. 3264
Onegov, L. A. 10959
Oskolkov, K. I. 833
Popov, V. A.; et al. 831
Popov, V. Ju. 13432
Raĭcin, R. A. 8121
Stark, E. L.; et al. 830
Storčaĭ, V. F. 10960
Sunouchi, G. 8122
Taberski, Roman 13433
Temljakov, V. N. 13434
Wachnicki, Eugeniusz 8123
Studies in contemporary problems of summability and approximation of functions, and their applications 10960

42A12 *Trigonometric interpolation*

Cheney, E. W.; et al. 3265
Johnson, Darell J. 5712
Kis, O. 3266,5731a-b
Ligun, A. A. 8124
Pulatov, A. I. 834
Rivlin, T. J.; et al. 3265
Szabados, J. 5714
Studies in contemporary problems of summability and approximation of functions, and their applications 8124

42A16 *Fourier, coefficients, Fourier series of functions with special properties, special Fourier series*

Ghizzetti, Aldo; et al. 8125
Kotljar, V. D. (11002)
Oberlin, Daniel M. 3267
Ossicini, Alessandro; et al. 8125
Ram, Babu 835
Sinha, Rajendra 8126

42A18 *Multipliers*

DeVore, Ronald 836
Gandulfo, R. O. 8127
Junggeburth, J. 5715
Stafney, James D. 837
Trebels, Walter 838
Zafran, Misha (5747,8159)

42A20 *Convergence of Fourier and trigonometric series*

Bočkarev, S. V. 10961
Čanturija, Z. A. 8128
Garrett, John W.; et al. 13435
Garsia, A. M.; et al. (2894)
Garsia, Adriano M. (1364)
Marzuq, Maher M. H. 13436
Rao, Aribindi Satyanarayan 8129
Rodemich, E.; et al. (2894)
Sinha, Rajendra 13437
Stanojević, Časlav V.; et al. 13435
Takahashi, S. (14055)
Tandori, Károly 8130
Žižiašvili, L. V. 8131
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (2894)
Limit theorems of probability theory (Colloq., Keszthely, 1974) (14055)

42A24 *Summability of trigonometric series*

Boĭcun, L. G. 10962,10963
Dikshit, H. P. 3268
Kil'berg, E. M. 5716
Kogan, D. 5717
Paculia, N. L. 10964
Persson, L.-E. 10965
Ray, B. K. 839
Singh, V. K. 10966
Swaminathan, V. 13438
Studies in contemporary problems of summability and approximation of functions, and their applications 5716,10962,10963

42A28 *Absolute convergence, absolute summability*

Chandra, P.; et al. 3269
Chandra, Prem 3270,13439
Dikshit, G. D. 3271
Gautam, L. P. 13440
Ray, B. K. 840,841
Sharma, M. M.; et al. 3269
Singh, Sheo Ram 842
Collection: Bompiani, Enrico 13439

42A36 *Probabilistic methods in Fourier analysis*

Davis, Burgess 10967
Takahashi, S. (14055)
Limit theorems of probability theory (Colloq., Keszthely, 1974) (14055)

42A40 *Conjugate functions, conjugate series, singular integrals*

Bondi, I. L. 13441
Coifman, R. R.; et al. 843
Cordoba, A.; et al. 8132
Fefferman, C.; et al. 8132
Gorbačuk, V. I. 5718
Kuprienko, V. D. 5719
Muckenhoupt, Benjamin; et al. 5720
Nagel, Alexander; et al. (10994)
Petrovič, A. Ju. 13442
Rochberg, R.; et al. 843
Sjölin, Per 844
Stein, Elias M. 8133a-c
Wainger, Stephen; et al. (10994)
Weiss, Guido; et al. 843
Wheeden, Richard L. 5721
Wheeden, Richard L.; et al. 5720

42A44 *Lacunary series of trigonometric and other functions, Riesz products*

Berkes, I. (14031)
Kaufman, R. (518),3272
Pedemonte, Luisa (13471)
Shapiro, George S. (13465)
Shiba, Masaaki 3273
Takahashi, S. (14055)
Conference on Harmonic Analysis (Univ. Maryland, College Park, Md., 1971) 3272
Limit theorems of probability theory (Colloq., Keszthely, 1974) (14055)

42A48 *Uniqueness of trigometric expansions, uniqueness of Fourier expansions, Riemann theory, localization*

Larsen, Ronald (8148)
Mantero, Anna Maria (3294)

42A52 *Orthogonal functions and polynomials, general theory* [*See also* 33A65.]

Anisimova, N. T. 5722
Csernyák, L. 3274
(Diamond, Ainsley) (*10927)
Endl, K. 10968
Erdős, P.; et al. 8134
Freud, G. 3275
Freud, G.; et al. 8134
Geronimus, Ja. L. 13443
Golinskiĭ, B. L. 5723,10969
(Hille, Einar) (*10927)
Osilenker, B. P. 3276
Price, J. J. 3277
Reimer, M. 8135
Sansone, G. (*10927)
Sprinkhuizen-Kuyper, I. G. 3278
Trench, William F. 8136

42A52 *Continued*

Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) 3275

42A56 *Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)*

Agrawal, S. R.; et al. 13444
Anosov, V. I.; et al. 13445
Choudhary, R. S.; et al. 10970
Davtjan, R. S.; et al. 5724
Gaposkin, V. F. 5725
Gilbert, John E. (7939)
Gupta, D. P.; et al. 10970
Heladze, Š. V.; et al. 5728
Horoško, M. P. (5690)
Krotov, V. G. 5726
Ladhawala, N. R. 5727
Lunina, M. A. 3279
Morettin, P. A. (4839)
Movsisjan, H. O. 8137
Patel, C. M.; et al. 13444
Pearl, Judea (12344)
Peyrière, Jacques 8138
Price, J. J. 845
Roider, Bernhard 3280
Sanadze, D. K.; et al. 5728
Schipp, F. 3281,13446,13447
Talaljan, A. A.; et al. 5724
Talaljan, F. A. 13448
Tandori, Károly 3282
Topurija, S. B. 13449
Veĭssenberg, A. N.; et al. 13445
Wade, William R. 8139
Yuen, C. K. 13450,(14318)
Žižiašvili, L. V. 5729
Jahrbuch Überblicke Mathematik, 1976 3280
Studies in contemporary problems of summability and approximation of functions, and their applications (5690)

42A60 *Series of general orthogonal functions and generalized Fourier expansions, nonorthogonal expansion*

Boivin, G.; et al. 10972
Chen, Jau-D. 5730
Davtjan, R. S. 10971
Fedotowsky, A.; et al. 10972
Il'in, V. A.; et al. 3283
Johnson, L. W.; et al. (6445)
Kašin, B. S. 846
Móricz, F. 847
Patel, C. M.; et al. 13451
Patel, R. K.; et al. 13451
Riess, R. D.; et al. (6445)
Schneider, Thomas R. 3284
Shaw, J. K.; et al. (6445)
Šišmarev, I. A.; et al. 3283
Taberski, R. 13452

42A64 *Completeness of sets of functions*

Akopjan, S. A.; et al. 848
Emel'janov, V. F.; et al. 10973
Hačatrjan, I. O.; et al. 848
Mamedov, N. E. 5731
Ščerbakov, V. I.; et al. 13453
Škalikov, A. A. 5732
Ševdenko, L. A.; et al. 10973
Ul'janov, P. L.; et al. 13453
Young, Robert M. 13454

42A68 *Fourier transforms*

Berthier, A. M.; et al. 849
Džavelidze, N. Š. 3285
Grannell, M. J. 5733
Jauch, J. M.; et al. 849
Lee, S. L. (8091)
Meyer, Yves 5734
Trigub, R. M. 13455
Séminaire d'Analyse Harmonique (année 1968/1969) 5734

42A72 *Fourier-Stieltjes transforms* [*See also* 60E05.]

Kruse, Klaus-Dieter (11458)

42A84 *Classical almost periodic functions, mean periodic functions* [*See also* 43A60.]

Abduvaitov, H. A.; et al. 8140
Anki Reddy, K. C. 13456
Anki Reddy, K. C.; et al. 13458
Bănzaru, T. 13457
Bauermeister, H. (7764)
Bredihina, E. A. 10974
Holdgrün, Horst S. (581,582)
Jaiswal, Anuradha; et al. 850
Meyer, Yves 5735
Muhamadiev, Ė. M.; et al. 8140
Nikišin, E. M. 3286
Sharma, P. L.; et al. 13458
Singh, Bijendra; et al. 850
Skoog, Ronald A.; et al. 8141
Ts'êng, Chün Hung 851,(7381)
Willems, Jan C.; et al. 8141

42A92 *Multiple Fourier series and integrals*

Avetisjan, R. A. 8142
Blošanskiĭ, I. L. 3287
Calderón, A. P.; et al. 5736
Connes, Bernard 10975
Gabisonija, O. D. 13459
Golovkin, K. K. (4157)
Golubov, B. I. 5737,5738
Judin, V. A. 5739
Kohn, M. J. 3288,13460
Maravić, Manojlo 8143
Nasibov, M. H. 5740
Nevai, G. P. 3289
Sjölin, Per 8144
Stein, E. M.; et al. 3290
Torchinsky, A.; et al. 5736
Wainger, S.; et al. 3290
Žižiašvili, L. V. 852
Boundary value problems of mathematical physics, 7 (4157)

43—XX ABSTRACT HARMONIC ANALYSIS (For other analysis on topological and Lie groups, see 22E.xx.)

43-02 *Advanced exposition (research surveys, etc.)*

(Bechtolsheim, Lulu) (*2925)
Berberian, Sterling K. (*5775)
Katznelson, Yitzhak *10976
Nachbin, Leopoldo (*2925)

43-06 *Collections of papers; proceedings of conferences*

(West, T. T.) *13461
Harmonic analysis *13461
Symposium on harmonic analysis and topological algebras (Trinity College, Dublin, 1975) *13461
Topological algebras *13461

43A05 *Measures on groups and semigroups*

Faraut, J. 853a-b
Greenleaf, Frederick P.; et al. 5741,(12993)
Maurer, Juliane (8785)
Mels, T. Ė. (14034)
Moskowitz, Martin; et al. 5741,(12993)
Ramaswami, S. 8145
Rothschild, Linda Preiss; et al. 5741,(12993)
Séminaire d'Analyse Harmonique (année 1968/1969) 853a-b

43A07 *Means on groups and semigroups*

Bombal Gordón, F.; et al. 5742
Ma, Tsoy, Wo 10977
Sine, Robert 854
Talagrand, Michel 8146
Vera Botí, G.; et al. 5742

43A10 *Measure algebras on groups and semigroups*

Akst, George 10978
Brown, Gavin; et al. 3291,5743,5744
Chow, H. L. (451)
Hewitt, Edwin; et al. 3291
Lin, Chung; et al. 13462
Martin, John C. 855
Moran, William; et al. 5743,5744
Rider, Daniel 5745
Saeki, Sadahiro 3292
Saeki, Sadahiro; et al. 13462
White, A. J. (5433)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 5745

43A15 *L_p spaces and other function spaces on groups and semigroups*

Bekes, Robert A. 8147
Derighetti, A. 856
Gommers, Toon 3293
Larsen, Ronald 8148
Mantero, Anna Maria 3294
Wells, Benjamin B., Jr. 13463
Yap, Leonard Y. H. 13464
Collection: Carathéodory, Constantin; Plemelj, Josip; Pompeiu, Dimitrie, and Ţiţeica, Gheorghe 13464

43A20 *L_1 algebras on groups and semigroups*

Burnham, James T. 3295
Chêng, Ch'ing Shui 8149
Graham, Colin C. 8150
Kalton, N. J.; et al. 3296
Kerlin, J. E.; et al. 5746
Leinert, Michael (8151)
Leptin, Horst (5841)
Ludvik, Peter 3297
Pepe, W. D.; et al. 5746
Tseng, Ching Nan; et al. 3298
Wang, Hawi Chiuan; et al. 3298
Wood, G. V.; et al. 3296
Functional analysis and its applications (Internat. Conf., Madras, 1973) 3295

43A22 *Homomorphisms and multipliers of function spaces on groups*

Burnham, James T.; et al. 3299
Fisher, Michael J. 8152
Herz, C. 8153
Kerlin, J. E.; et al. (5746)
(Kwapień, S.) 8152
Lahr, Charles D. 3300
Lohoué, N. 8154
Muhly, Paul S.; et al. 3299
Oberlin, Daniel M. 3301
Pepe, W. D.; et al. (5746)
Peyrière, Jacques (8138)
Strichartz, Robert S. 8155
Unni, K. R. 8157,8158
Vretare, Lars 3302
Weiss, Norman J. 8156
Zafran, Misha 5747,8159
Functional analysis and its applications (Internat. Conf., Madras, 1973) 8157,8158

43A25 *Fourier and Fourier-Stieltjes transforms on locally compact abelian groups*

Amiya, Masanobu 8160
Dressler, Robert E.; et al. 8161
Friedberg, Stephen H. 857
Hewitt, Edwin; et al. 8162
Pigno, Louis 10979
Pigno, Louis; et al. 8161
Ritter, Gunter; et al. 8162
Shapiro, George S. 13465

43A30 *Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups*

Herz, Carl 13466
Lipsman, Ronald L. 13467
Liukkonen, John R.; et al. 8163
Mislove, Michael W.; et al. 8163
Walter, Martin E. 8164

43A32 *Other transforms and operators of Fourier type*

deLeeuw, Karel 13468

43A35 *Positive definite functions on groups*

Berg, Christian; et al. 8165
Christensen, Jens Peter Reus; et al. 8165
Derighetti, A. (856)
Forst, Gunnar (8781)
Peters, Justin 8166
Ressel, Paul; et al. 8165
Rider, Daniel 858

43A40 *Character groups and dual objects*

Venkataraman, Rangachari (7696)

43A45 *Spectral synthesis on groups and semigroups*

Bloom, Walter R. 3303
Domar, Yngve 859
Doss, Raouf 13469,13470
Meyer, Yves (2613,5734)
Stegeman, J. D. 10980
Varopoulos, Nicholas (3304)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (3304)
Séminaire d'Analyse Harmonique (année 1968/1969) (5734)

43A46 *Special sets (thin sets, Helson sets, Kronecker sets, Sidon sets, etc.)*

Méla, Jean-François 860
Oberlin, Daniel M. 8167
Pedemonte, Luisa (13471)
Salinger, D. L. 861
Sato, Enji 862
Varopoulos, Nicholas 3304
Woodward, Gordon S. 10981
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 3304
Séminaire d'Analyse Harmonique (année 1968/1969) 861

43A50 *Convergence of Fourier series and of inverse transforms*

Pedemonte, Luisa 13471

43A60 *Almost periodic functions on groups and semigroups*

Anki Reddy, K. C.; et al. (13843)
Berglund, John F. 863
Berglund, John F.; et al. 10982
Funakosi, S.; et al. (13843)
Holdgrün, Horst S. 5748
Ma, Tsoy Wo (10977)
Meyer, Yves (268,2613)
Milnes, Paul 8168
Milnes, Paul; et al. 10982
Sharma, P. L.; et al. (13843)
Ylinen, Kari 13472
Journées Arithmétiques Françaises (Univ. Provence, Marseille, 1971) (2613)
Séminaire Delange-Pisot-Poitou (13e année: 1971/72), Fasc. 1 (268)

43A65 *Representations of groups and semigroups*

Borel, Armand (*2871)
Gross, Kenneth I.; et al. 3305
Guichardet, A. (12963)
Kunze, Ray A.; et al. 3305

43A70 *Analysis on specific locally compact abelian groups* [*See also* 12A85.]

Bloom, Walter R. (5704)
Taibleson, Mitchell H. (5195)

43A75 *Analysis on specific compact groups*

Glicksberg, I. 3306
Helson, Henry 5749a-b
Rudin, Walter (10643)
Stanton, Robert J. (8173)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10643)

43A80 *Analysis on other specific Lie groups*

Dynin, A. S. (11410,11411)
Muta, Yôichi 10983
Rouvière, François 13473
Varadarajan, V. S. (12985)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (12985)

43A85 *Analysis on homogeneous spaces*

Askey, R.; et al. 10984
Asoo, Yasuhiro (14064)
Auslander, Louis; et al. (*2877)
Bingham, N. H.; et al. 10984
Carroll, Robert W. (11415a-b)
Debiard, Amédée (3038)
Faraut, Jacques 5750,10985
Gandulfo, R. O. (8127)
Gelbart, Stephen S. 13474
Helgason, Sigurdur 8169
Johnson, Kenneth D. (12974)
Korányi, Adam (13154)
Levine, Daniel A. 864
Malliavin, Paul; et al. (11531)
Malliavin-Brameret, Marie-Paul; et al. (11531)
Minemura, Katsuhiro 13475
Muta, Yôichi 865
Sadykova, S. B.; et al. 866
Stein, Elias M. (8133a-c)
Tolimieri, Richard; et al. (*2877)
Uspenskiĭ, S. V.; et al. 866
Weiss, Norman J. 8170
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 10985
Séminaire de Théorie du Potentiel (15e année: 1972) 5750
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) 8169,8170

43A90 *Spherical functions*

Askey, R.; et al. (10984)
Bingham, N. H.; et al. (10984)
Christensen, Jens Peter Reus 867
Clerc, Jean Louis 13476
Cohn, Leslie (*10496)
Faraut, Jacques 8171
Gangolli, Ramesh 8172
Macdonald, I. G. (7709,10509)
Muta, Yôichi (865)
Shimizu, Yoshiyuki 868
Stanton, Robert J. 8173
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (7709)
Analyse harmonique sur les groupes de Lie (Sém. Nancy-Strasbourg, 1973-75) 8171
Colloque sur les Fonctions Sphériques et la Théorie des Groupes (Univ. de Nancy, Nancy, 1971) (10509)
Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969-1970) 8172

44—XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS

(For fractional derivatives and integrals, see 26A33.)

44A05 *General transforms* [*See also* 42A76.]

Joshi, D. G. 3307
Kalla, S. L. 3308
Necula, Maria-Ana (14864)
Wagner, Eberhard 13477

44A10 *Laplace transform*

Burov, G. A. 13478
Dahiya, R. S. 13479
Dang, N. D. P.; et al. (1547)
Goel, V. P. 13480
Jain, N. C. 5751
Nair, V. C.; et al. 8174
Piessens, R.; et al. (1547)
Rooney, P. G. (556)
Samar, M. S.; et al. 8174
Bibliography: Laplace transform inversion (1547)
Control methods and models, No. 6 13478

44A15 *Special transforms (Legendre, Hilbert, etc.)*

Battig, A.; et al. 8175
de Battig, N. E. F. (8191)
Braaksma, B. L. J.; et al. 8176
Chakrabarti, Aloknath 869
Chaubey, H. D.; et al. 3309
Conlan, J.; et al. 10986
de Del Pino, M. E. N.; et al. 10988
Dube, Arun Prabha 8177
de Galindo, S. E. González 8178
Garg, O. P.; et al. 13481
Ghatwary, G. K. (8079)
Ghosh, J. D. 10987
Goel, V. P. 3310
de Gómez López, A. M. M. 10989
de Gómez López, A. M. M.; et al. 10988
Gupta, K. C.; et al. 13481
Hayek, Nácere 8179
Jerri, A. J. 13482
Kalla, S. L.; et al. 8175,13481
Koh, E. L.; et al. 10986
Mehra, A. N. 3311
Misra, O. P. 870
Neri, Umberto (11049)
Ogievetskiĭ, I. I.; et al. 3314
Pathak, R. S.; et al. 3309
Pathak, Ram Shankar 3312
Rao, G. L. N. (3398)
Schuitman, A.; et al. 8176
Srivastava, H. M. 3313
Stempkovskaja, A. A.; et al. 3314
Ulmer, W. (4460)
Wankhede, P. C. 8180
Wong, R. 3315
Yadava, S. R. 10990
Zaidi, N. H. 13483
Zemanian, A. H. *10991
Studies in contemporary problems of summability and approximation of function, and their applications 3314

44A20 *Transforms of special functions*

Bhonsle, B. R. 5752
Gokhroo, D. C. 10992
Gupta, K. C.; et al. 10993
Handa, S.; et al. 10993
Kalla, S. L. 13484
Kalla, S. L.; et al. 10993
Mohan, Madan 13485
Pathak, R. S. 8181
Prasad, Y. N.; et al. 13486
Singh, S. N.; et al. 13486
Verma, R. U. 5753,8182

44A25 *Singular integrals (Calderón-Zygmund, etc.)* [*See also* 47G05.]

Calderón, A. P.; et al. (5736)
Calderón, Calixto P. 13487
Cordoba, A.; et al. (8132)
Fefferman, C.; et al. (8132)
Holmuradov, Ž. 13488
Nagel, Alexander; et al. 10994
Torchinsky, A.; et al. (5736)
Wainger, Stephen; et al. 10994

44A30 *Multiple transforms*

Joshi, C. M.; et al. 8183
Prajapat, M. L.; et al. 8183
Rühs, Fritz (13283)

44A35 *Convolution*

Berg, Lothar 10995
Danon, Chaim; et al. 13489
Jaju, R. P. 10996
Leviatan, Daný; et al. 13489
Zo, Felipe 10997

44A40 *Calculus of Mikusiński and other similar operational calculi*

Antosik, Piotr; et al. (*924)
Fisher, B. (11055)
Kowalski, Michał (10222)
Kuhfittig, Peter K. F. 13490
Mikusiński, Jan; et al. (*924)
Sikorski, Roman; et al. (*924)
(Solomencev, E. D.) (*924)
(Žarinov, V. V.) (*924)

44A45 *Classical operational calculus*

Fraile Ovejero, Vincente 5754
Krabbe, Gregers 13491
Malahovskaja, R. M. (8000)
Mathematical questions, No. 3 (8000)

44A50 *Moment problems* [*See also* 42A80.]

Alterovitz, S.; et al. 3316
Bagijan, R. A. (805)
Courtade-Coulomb, Geneviève 10998
Gershenson, M.; et al. 3316

44A50 *Continued*

Maserick, P. H. 872
Merkes, E. P.; et al. 10999
Wetzel, Marion; et al. 10999

45—XX INTEGRAL EQUATIONS

45-02 *Advanced exposition (research surveys, etc.)*

Sell, George R. (7919)
Ordinary differential equations: 1971 NRL-MRC Conference (7919)

45A05 Linear integral equations

Avramescu, C. 8184
Helton, Burrell S. (3067)
Kulešov, A. A. 11000

45B05 Fredholm integral equations

Bart, George R. (3339)
Biollay, Yves 873
de Gómez López, A. M. M.; et al. (10988)
de del Pino, M. E. N.; et al. (10988)
Semencov, O. V. 13492
Ueno, S. 11001

45C05 Eigenvalue problems (See also 34B25, 35Pxx, 47E05.)

Kotljar, V. D. 11002
Lopatins'kiĭ, Ja. B. 11003

45D05 Volterra integral equations (See also 34A10.)

Bačurskaja, A. F.; et al. 3317
Baĭnov, Drumi D.; et al. 13494
Bantaš, Gh. 13493
Bitzer, Carl W. 3318
Caljuk, Z. B.; et al. 3317
Getmanceva, T. I. (3340)
Hendry, W. L. 3319
Konstantinov, Mihail M.; et al. 13494
Levin, J. J. 8185
MacCamy, R. C. 11004
Miller, R. K. (3323)
Nimatov, H. 8186
Porath, Günter 13495
Sell, George R. 874
Staffans, Olof J. (10921)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (3323)
Mathematical analysis, No. 2 3317,(3340)
Symposium on Ordinary Differential Equations (Univ. Minnesota, Minneapolis, Minn., 1972; dedicated to Hugh L. Turrittin) 874

45Exx Singular integral equations

45E05 *Integral equations with Cauchy type kernels* [*See also* 30A88,35J15, 44A15,44A35.]

Clancey, Kevin F. 3320
Kartaševa, L. V. 875
Komjak, I. I. 5755
Kravčenko, V. G.; et al. 13496
Litvinčuk, G. S.; et al. 13496
Mehtiev, A. A. 8187
Mihaĭlov, L. G. 13497
Saryev, M. 3321
Skomaha, L. N. 8188
Proceedings of the Symposium on Continuum Mechanics and Related Problems of Analysis (Tbilisi, 1971), Vol. 1 13496

45E10 *Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type)* [*See also* 44A15,44A35, 47B35.]

Engibarjan, N. B.; et al. 8189
Homentcovschi, D. 8190
Mnacakanjan, M. A.; et al. 8189
Rieder, Peter 3322
Rutelli, Giovanni (4846)

45E99 *None of the above, but in this section*

Leggett, Richard W. 5756
Merlin, A. V. 5757
Niyogi, Ajay Kumar 13498
Selected problems of mathematics and physics 5757

45Fxx Systems of linear integral equations

45F05 *Systems of nonsingular linear integral equations*

Congedo, Giuseppe; et al. 13499a-b
DeFranco, R. J. 5758
Denny, William F. 13500,13501
Kozak, P. P. (629)
Lepore, Antonio; et al. 13499a-b
Miller, R. K. 3323
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 3323

45F10 *Dual, triple, etc. integral and series equations*

Aleksandrov, V. M. 11005
de Battig, N. E. F. 8191
Chaturvedi, H. C. 5759
Dwivedi, A. P.; et al. 5760
Gupta, O. P.; et al. 13503
Jain, R. K.; et al. 3324
Kiyono, Takeshi; et al. 5761
Saxena, R. K.; et al. 13502
Sethi, P. L.; et al. 13502,13503
Shimasaki, Masaaki; et al. 5761
Singh, B. M. 3325
Singh, B. M.; et al. 3324
Trivedi, T. N.; et al. 5760

45F15 *Systems of singular linear integral equations*

Tuzik, A. I. 11006

45Gxx Nonlinear integral equations (See also 47Hxx.)

45G99 *Other nonlinear integral equations*

Bushell, P. J. 876
Londen, Stig-Olof 8192
Ragimhanov, R. K. 5762

45H05 Miscellaneous special kernels (See also 44A15.)

Battig, A.; et al. 8193
Bhonsle, B. R.; et al. 8194
Bongiorno, Fulvio (3199)
Gollwitzer, H. E. 13504
Gupta, H. L.; et al. 877,5763
Joshi, B. K. 5764
Kalla, S. L. 13505
Kalla, S. L.; et al. 8193
Landau, H. J. (11988)
Muley, D. B.; et al. 8194
Rusia, K. C.; et al. 877,5763
Delay and functional differential equations and their applications 13504

45J05 Integro-ordinary differential equations

Arolska, M. At.; et al. (5594)
Baĭnov, D. D.; et al. 3326,(5594),8195,(13494)
Carvalho, L. A. V.; et al. (5580)
Cĭdilo, K. V.; et al. 3327
Corduneanu, C. (13513)
Duĭšeev, È. D.; et al. 5765,5767
Fedorenko, L. G. 11007
Gregory, J.; et al. 11008
Grossman, S. I. 5768
Gul'ka, S. S.; et al. 3327
Izé, A. F.; et al. (5580)
Janicka, Renata 8196
Kamytov, T. 3328
Kiffe, Thomas R. 5769
Konstantinov, Mihail M.; et al. (13494)
Krylova, T. V.; et al. 5770
Lopez, G. C.; et al. 11008
Migovič, F. M.; et al. 3327
Miluševa, S. D.; et al. 3326,8195
Pachpatte, B. G. 8197
Omuraliev, A. S. 5766
Omuraliev, A. S.; et al. 5765,5767
Ramankulov, S.; et al. 3334
Ručinskiĭ, V. S. 3329
Rzaev, K. U. 13506
Saadabaev, A. 11009
Šabykeev, B. 3330
Samoĭlenko, A. M.; et al. 3331
Sarafova, G. H.; et al. 3331
Satygulova, S. 3332
Sidijarov, S. (10801),11010
Škil', M. I.; et al. 8198
Tabysov, R. 3333
Topoljanskiĭ, D. B.; et al. 5770
Tukešev, O.; et al. 3334
Voronoĭ, O. M.; et al. 8198
Analytic methods for the study of the solutions of nonlinear differential equations 3331
Équations différentielles et fonctionnelles non linéaires 5768
Methods for the quantitative and qualitative study of differential and integral equations 3327
Ordinary differential equations: 1971 NRL-MRC Conference (13513)
Studies in contemporary problems of summability and approximation of functions, and their applications 5770
Studies of special questions in the theory of differential equations 13506

45K05 Integro-partial differential equations

Ahmatova, S.; et al. 3336
Benvenuti, Pietro; et al. 8199
Džunusbekova, S. S.; et al. 8200
Gavrin, V. P. 3335
Jagubov, M. A. 13507
Kabulov, R.; et al. 3336
Krivošein, L. E.; et al. 8199,8200,11011
Leung, Kin Vinh; et al. 8200,11011
Mahmudov, A. P.; et al. 8201
Malahovskaja, R. M.; et al. (928)
Mangeron, Dumitru Ion; et al. 8199,11011
Nahušev, A. M. 13508
Oğuztöreli, Mehmet Namık 8199,8200,11011
Ragimov, M. B.; et al. 8201
Rossi, Francesco Saverio; et al. 8199
Šabykeev, B. 3337
Sarygulov, K. S. 3338
Šihmanter, E. D.; et al. (928)
Mathematical questions, No. 3 (928)
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 3336

45Lxx Approximation of solutions

45L05 *Theoretical approximation of solutions*

Alieva, A. I.; et al. 5772
Asirov, S.; et al. (1588)
Atdaev, S.; et al. (1588)
Èfendiev, È. I. 5771
Groetsch, C. W. 878
Jeggle, Hansgeorg (1680)
Mamedov, A. M.; et al. 5772
Petsoulas, A. G. 11012
Porath, Günter 13509

45Mxx Qualitative behavior

45M05 *Asymptotics*

Bart, George R. 3339
Getmanceva, T. I. 3340
Hsing, Deh-phone Kung 13510
Jordan, G. S.; et al. 13511
Londen, Stig-Olof 13512
Nohel, John A. 5773
Novoksenov, V. Ju. 8202
Wheeler, Robert L.; et al. 13511
Mathematical analysis, No. 2 3340

45M05 *Continued*

Ordinary differential equations: 1971 NRL-MRC Conference 5773
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 13512

45M10 *Stability theory*

Corduneanu, C. 13513
Ramm, A. G. 3341
Sell, George R. (874)
Ordinary differential equations: 1971 NRL-MRC Conference 13513
Symposium on Ordinary Differential Equations (Univ. Minnesota, Minneapolis, Minn., 1972; dedicated to Hugh L. Turrittin) (874)

45N05 Abstract integral equations, integral equations in abstract spaces

Podowski, M. 5774

46—XX FUNCTIONAL ANALYSIS (For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.)

46-01 *Elementary exposition (collegiate level)*

Berberian, Sterling K. *3342
Fage, M. K. *3343

46-02 *Advanced exposition (research surveys, etc.)*

Agranovskiĭ, M. L.; et al. *879
Akilov, G. P.; et al. *879
Berberian, Sterling K. *5775
Bonsall, Frank F.; et al. *11013
Duncan, John; et al. *11013
Henstock, Ralph (*7725)
Kutateladze, S. S.; et al. *879
Lindenstrauss, Joram; et al. *3344
Nachbin, Leopoldo (*3261)
Stout, Edgar Lee (*11066)
Tzafriri, Lior; et al. *3344
Vuvunikjan, Ju. M.; et al. *879

46Axx Topological linear spaces

46A05 *Locally convex spaces*

Ahmedova, P. D. 8203
Apiola, Heikki 3345
Bellmann, R. 3346
Dierolf, Susanne (3439)
Dineen, Seán (11057,11058)
Drewnowski, Lech; et al. 5776
Hollstein, R. (8317)
Howard, Joe; et al. 3347
Kim, Jongsik 13514
Kürezlioglu, Hayri (8318)
Lohman, Robert H.; et al. 5776
Marquina, Antonio 11014
Nakamura, Masatoshi 880,11015
Ostling, Ed; et al. 3347
Pfister, Helmut 5777
Saint-Raymond, J. 13515
Schmets, Jean (*11041)
Sekackiĭ, V. V. 3441
Šilov, G. E. 13516
Smoljanov, O. G. 13517
Turpin, Philippe 8204
Proceedings on Infinite Dimensional Holomorphy (11057)
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) (8318)
Séminaire Pierre Lelong (Analyse), Année 1973-1974 8204

46A07 *Barrelled spaces*

Chilana, Ajit Kaur; et al. 13518
Husain, T.; et al. 8206
Khaleelulla, S. M. 5778-5781
Marquina, A.; et al. 881,8205
Pérez Carreras, P.; et al. 881,8205
Popoola, J. O.; et al. (8212)
Ruess, Wolfgang 3348
Sharma, Saroj; et al. 13518
Tweddle, I.; et al. (8212)
Wilansky, A. 882
Wong, Yau Chuen; et al. 8206
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8205

46A09 *Bornological spaces*

Dierolf, Suzanne; et al. 3349
Hunnargikar, Ranjana; et al. 11016
Joshi, N. E.; et al. 11016
Kasahara, Shouro 8207,8208
Lurje, Pawel; et al. 3349
Mirashi, Manik; et al. 11016
Moscatelli, V. B. 8209,11017

46A15 *Other topological linear spaces*

Adasch, N. 8210
Bragard, Léopold 5782
Buchwalter, Henri 883
Bunjaev, M. M. (11075)
Courant, Simon (957)
Dierolf, S. 5783
Efimova, T. A.; et al. (13524)
Fenske, Christian; et al. 884
Hoang Tuy 13519
Kalton, N. J. 3350
Ligaud, Jean Pierre 5784
Makarov, B. M.; et al. (13524)
Maumus, Jean 3351
Muntean, Ioan 5785
Nordman, Hasse (1149)
Petunin, Ju. I.; et al. 13520
Schock, Eberhard; et al. 884
Skljadnev, S. A.; et al. 13520
Soler, M. 13521
Wobst, Reinhard 5786
Turpin, P. (11046)
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8210

46A20 *Duality theory*

Barr, Michael 13522
Ubhaya, Vasant A. 8211a-b

46A25 *Reflexivity and semi-reflexivity*

Bombal, F.; et al. 11018
Vera, G. (10926)
Vera, G.; et al. 11018

46A30 *Open mappings and closed graph theorems and completeness (including B-, B_r, completeness)*

Adasch, Norbert 885
Byczkowski, T.; et al. (11266)
Grant, Douglass L. (458)
Khaleelulla, S. M. 3352
Pelletier, Joan Wick (5857)
Pol, R.; et al. (11266)
Popoola, J. O.; et al. 8212
Pták, Vlastimil 3353
Šavgulidze, E. T. 13523
Smoljanov, O. G. 8213
Tweddle, I.; et al. 8212
Valdivia Ureña, Manuel 11019

46A35 *Summability and bases*

De Grande-De Kimpe, N. 11020
Džakov, P. B.; et al. 11021
Efimova, T. A.; et al. 13524
Haslinger, Friedrich 8214
Kalton, N. J.; et al. 8215
Kamthan, P. K.; et al. 8216
Makarov, B. M.; et al. 13524
Mitjagin, B. S.; et al. 11021
Oja, E. 8217,8218
Ray, S. K.; et al. 8216
Shapiro, J. H.; et al. 8215

46A40 *Ordered topological linear spaces, vector lattices*

Abramovič, Ju. A.; et al. 886
Annulis, John T. 13525
(Bechtolsheim, Lulu) (*3667)
Bellmann, R. (3346)
Buhvalov, A. V. (3369a-b),5787
Burkinshaw, Owen; et al. 8219
Cirel'son, B. S. 887
Čučaev, I. I.; et al. 5790
Danilenko, I. F.; et al. 5790
Diestel, J.; et al. (7740)
Dodds, Peter; et al. 8219
Dubinsky, Ed ; et al. (*8229)
Duhoux, Michel; et al. 11022
Fakhoury, Hicham 8220
Feldman, W. A.; et al. 5788
Flösser, Hans O. 5789
Fremlin, D. H. 13526
Geĭler, V. A.; et al. 5790
Gowrisankaran, Kohur (8281)
Grigore, Gh. 8221
Hadžiev, Dž. 3354
Hofler, John T. 3355
Hsu, In Ching 3356
Husain, T.; et al. 8222
Isac, George 8223
Johnson, W. B.; et al. 8224
de Jonge, Ep (11045)
Khaleelulla, S. M.; et al. 8222
Kutateladze, S. S. 3357,8225
Leblanc, Raymond 8226
Levin, Mark 5791
Lozanovskiĭ, G. Ja. 5792
Macdonald, Alan L. (11051)
Moore, Calvin C.; et al. (7693)
Nachbin, Leopoldo (*3667)
Ng, Kung Fu; et al. 11022
Porter, J. F.; et al. 5788
Ramanujan, M. S.; et al. (*8229)
Rosenberg, Jonathan; et al. (7693)
Schaefer, Helmut H. *11023
Seifert, C. J.; et al. (7740)
Strzelecki, E. 11024
Šul'ga, D. D. 5793,8227
Szankowski, A. (8245)
To, Ting-On 5794
Tzafriri, L.; et al. 8224
Vasil'ev, V. A. 5795
Veksler, A. I. 11025
Veksler, A. I.; et al. 886
Wickstead, A. W. 8228
Zaharov, V. K. 888
Zowe, Jochem 13527
Collection: Shimizu, Tatsujiro 8222
Vulih, B. Z. 886-888,5787,5790,5792
Functional analysis and its applications (Internat. Conf., Madras, 1973) (8281)

46A45 *Sequence spaces (including KÖthe spaces)*

Cross, Joe 889
Cross, R. W. 13528
De Grande-De Kimpe, Nicole 890
Dubinsky, Ed; et al. *8229
Fakhoury, Hicham 13529
Gračev, V. A. 11026
Lazić, Milivoje G. 5796
Leonard, I. E. 8230
Liverani, Francesco (11060)
Maddox, I. J.; et al. (5671)
McGivney, Raymond J.; et al. 3358
Ramanujan, M. S.; et al. *8229
Roles, J. W.; et al. (5671)
Ruckle, William; et al. 3358
Tam, K. W. (3385)
Terzioglu, Tosun 8231
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8231

46A99 *None of the above, but in this section*

Alfsen, Erik M.; et al. (943)
Anger, Bernd 8232
Bierstedt, Klaus-Dieter (3371)
Bryant, Victor 5797
Chu, Cho Ho 8233
Djatlov, V. N. 5798
Donner, Klaus 13530
Edwards, D. A. 13531
Fuchssteiner, Benno 891,892
Goullet de Rugy, Alain (8249)
Holmes, Richard 893
Jaiswal, Anuradha; et al. (898)
Jamison, R. E.; et al. 13532
Landsberg, M.; et al. 3359
Lelong, Pierre 8234
Mastrangelo-Dehen, Michèle 5799
Maumus, Jean 11027
Obienu, E. U. 5800
O'Brien, R. C.; et al. 13532
O'Brien, Richard C. 8235
Pranger, Walter (8447)
Rajagopalan, M.; et al. 3360
Roy, A. K. 3361,8236
Roy, A. K.; et al. 3360
Ruess, Wolfgang 13533
Sbordone, Carlo 5801
Schirotzek, W.; et al. 3359
Schröder, Gunnar (1597)
Shultz, Frederic W.; et al. (943)
Singh, Bijendra; et al. (898)
Taylor, P. D.; et al. 13532
Turpin, Philippe 11028
Vangeldère, J. (3592)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13531
Collection: Vulih, B. Z. 5798
Jahrbuch Überblicke Mathematik, 1976 (3371)
Séminaire Pierre Lelong (Analyse), Année 1973-1974 8234

46A99 *Continued*

Séminaire de Théorie du Potentiel (14e année: 1970/71) 5799

46Bxx Normed linear spaces and Banach spaces (For function spaces, see 46Exx.)

Lindenstrauss, Joram; et al. (*3344)
Tzafriri, Lior; et al. (*3344)

46B05 *Topology in terms of the norms*

Bachelis, Gregory F. 3362
Betts, J. R.; et al. 5802
Bourgain, J. 3363
Cargo, G. T.; et al. 894
Chevet, S. (3436)
Cirel'son, B. S. (887)
Collier, James B. 13534
Daneš, Josef 5803
Dor, L. E. 5804
Edmunds, D. E.; et al. (5859)
Enflo, Per 11029
Farahat, J. 895
Figiel, T. 13535
Figiel, T.; et al. 5805,8237
Garling, D. J. H.; et al. 896
Giles, J. R. 11030
Gordon, Y.; et al. 896
Gudder, S.; et al. 5806
Guy, Noël 3364
Haydon, Richard 11031
Hubbard, John R. 8238
Huff, R. E.; et al. 897
Jaiswal, Anuradha; et al. 898
John K.; et al. 5807,11032
Johnson, W. B.; et al. 5808,13536
Kaup, Wilhelm; et al. (10690)
Kwapień, S. 8239
Lau, Ka Sing 3365,11033
Linde, Werner (953)
Lindenstrauss, J.; et al. 5808,8237
Lindenstruass, Joram 5809,13537
Mil'man, V. D. 8240
Milman, V. D.; et al. 8237
Morris, P. D.; et al. 897
Moscatelli, V. B.; et al. (5859)
Naidu, S. Venkata Ratman; et al. 8241
Nevesenko, N. V.; et al. 11035a-b
Neville, Charles W. 899
Odell, E. 11034
Osman, E. V.; et al. 11035a-b
Pai, D. V. 3366
Pisier, G. 3367,(11040)
Retherford, J. R. (955)
Retherford, J. R.; et al. 3368
Rosenthal, Haskell P. 5810
Sastry, K. P. R.; et al. 8241
Schachermayer, Walter (5856)
Schwartz, Laurent 900
Shisha, O.; et al. 894
Singh, Bijendra; et al. 898
Stegall, C. P.; et al. 3368
Strawther, D.; et al. 5806
Sucheston, L.; et al. 5805
Szankowski, A.; et al. 13536
Thompson, A. C.; et al. 5802
Upmeier, Harald; et al. (10690)
Zizler, V.; et al. 5807,11032
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13537
Collection: Vulih, B. Z. (887)
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires 900
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11029
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 8239
Séminaire Maurey-Schwartz Année 1972-1973: Espaces L^p et applications radonifiantes 3367
Séminaire Maurey-Schwartz 1973-1974: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach (11040)
Séminaire Maurey-Schwartz 1974-1975: Espaces L^p applications radonifiantes et géométrie des espaces de Banach 895
Séminaire Pierre Lelong (Analyse), Année 1974/75 (5856)
Symposium on Infinite-Dimensional Topology (1967) 5809

46B10 *Duality and reflexivity*

Barr, Michael 11036
Brown, Leon; et al. 11037
Ito, Takashi; et al. 11037
James, Robert C. 5811
K'uo, Ts'ang Hai 11038
Lima, Asvald 13538
Smith, M. A. 11039
Sundaresan, Kondagunta 901
The geometry of metric and linear spaces (Proc. Conf., Michigan State Univ., East Lansing, Mich., 1974) 901

46B15 *Summability and bases*

Altshuler, Z. 8242
Benzinger, Harold E. (10730)
Bessaga, C. 5812
Bessaga, C.; et al. 5813
Buhvalov, A. V. 3369a-b
Casazza, P. G.; et al. 8243
Dacunha-Castelle, Didier 3370
Dayanithy, K. 8244
Èdel'šteĭn, I. S.; et al. 13539
Gurevič, L. A. 13540
Kadec, M. I.; et al. 5813
Lin, Bor Luh; et al. 8243
Pełczyński, A. 13541
Szankowski, A. 8245,13542
Terenzi, Paolo 8246
Wojtaszczyk, P.; et al. 13539
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) (10730)
Proceedings of the Simposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) 8244
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 3370
Symposoium on Infinite-Dimensional Topology (1967) 5812,5813

46B99 *None of the above, but in this section*

Bhola, H. L.; et al. (13428)
Bierstedt, Klaus-Dieter 3371
Fleming, Richard J.; et al. 3372
Funakosi, Shunsuke 3437
Gevirtz, Julian (13973)
Goldstein, Jerome A.; et al. 3372
Haifawi, Mahmoud 8247
Jamison, James E.; et al. 3372
Papini, Pier Luigi 13543
Sharma, P. L.; et al. (13428)
Collection: Soriano, Luis I. (1903-1973) (13973)
Jahrbuch Überblicke Mathematik, 1976 3371
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8247

46Cxx Inner product spaces, Hilbert spaces (For function spaces, see 46Exx.)

46C05 *Geometry and topology of the spaces*

Gudder, Stanley 8248
Martin, C.; et al. (5981)
Mustari, D. H. (6220)
Valentine, J. E.; et al. (5981)

46C99 *None of the above, but in this section*

Diminnie, Charles; et al. 13544
Gähler, Siegfried; et al. 13544
Janssen, Gerhard (12846)
White, Albert; et al. 13544

46Exx Function spaces (For function algebras, see 46J10.)

Lindenstrauss, Joram; et al. (*3344)
Tzafriri, Lior; et al. (*3344)

46E05 *Lattices of continuous, differentiable or analytic functions*

Goullet de Rugy, Alain 8249
Jean, M. (5824)
Veksler, A. I. (11025)

46E10 *Topological linear spaces of continuous, differentiable or analytic functions*

Alić, Mladen 902
Chilana, Ajit Kaur; et al. (13518)
Cook, Thurlow A.; et al. 3373
Curtis, P. C., Jr. (*903)
Feldman, W. A.; et al. (1154)
Haplanov, M. G. 13545
Haydon, R. G. 8250
Kamthan, P. K. 5814
Katsaras, A. K. 3374
Kong, T. J.; et al. (1154)
Krasičkov-Ternovskiĭ, I. F. 10622-10624
Nguyen Thanh Van 8251
Pisier, G. 11040
Rajagopalan, M.; et al. (3360)
Roy, A. K.; et al. (3360)
Ruckle, William H.; et al. 3373
Schmets, Jean *11041
Servien, Claude 13546
Shapiro, Joel H. 3375
Sharma, Saroj; et al. (13518)
Wheeler, Robert F. 904,13547
Séminaire Pierre Lelong (analyse), Année 1974/75 13546
Séminaire Maurey-Schwartz 1973-1974: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 11040

46E15 *Banach spaces of continuous, differentiable or analytic functions*

Anderson, J. M. 3376
Baker, John Warren; et al. 5815
Bear, H. S. 8252
Billard, Pierre 3377
Brennan, James E. 11042
Ditor, Seymour; et al. (6071)
Easton, R. J.; et al. 3380
Gevorkjan, Ju. L.; et al. 5816
Globevnik, J. 905
Haydon, Richard (6069,6070)
Haydon, Richard; et al. (6071)
Henkin, G. M. 3378
Johnson, J. A. 3379
Kaplan, A. A. 5817
de Korvin, A.; et al. 3380
Mitjagin, B. S.; et al. 8253
Novinger, W. P. 5818
Ono, Takeshi 8254
Paškova, T. V.; et al. 5816
Pełczyński, A.; et al. 8253
Tromba, A. J. (8712)
Williams, D. L. 8255
Wolfe, John; et al. 5815

46E20 *Hilbert spaces of continuous, differentiable or analytic functions*

Ancona, Alano 3381
de Branges, Louis 8256,8257
Knauff, W. 906
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 906

46E25 *Rings and algebras of continuous, differentiable or analytic functions* [*For Banach function algebras, see* 46J10,46J15.]

Besov, O. V.; et al. 3386
Džabrailov, A. D.; et al. 3386
Hery, William 11043
Semadeni, Zbigniew (5858)
Symposia Mathematica, Vol. XVII (5858)

46E27 *Spaces of measures* [*See also* 28A32.]

Chang, Sun Man 13548
Katsaras, Athanasios K. 907
Page, Warren 908
Pollard, David 3382

46E30 *Spaces of measurable functions, L^p spaces, Orlicz spaces* [*See also* 43A15.]

Bertheir, A. M.; et al. (849)
Blozinski, A. P. 3383
Boyd, David W. 909
Cheney, E. W.; et al. 11044
Cleaver, Charles E. 13549
Dor, Leonard E. 8258
Feyel, Denis (13015)

46E30 *Continued*

Fischer, W.; et al. 8259
Franchetti, C.; et al. 11044
Garsia, A. M.; et al. (2894)
Gretsky, N. E.; et al. (3475)
Gretsky, Neil E. (*3476)
Jauch, J. M.; et al. (849)
de Jonge, Ep 11045
Katavolos, A. (5847)
Klimov, V. S. (8264)
Labuda, Iwo 5819
Leśniewicz, R. (13575)
Maurey, B. 910,(8851)
Neinig, H. P. 3384
Pipkin, A. C.; et al. (2921)
Potepun, L. I. 911
Rao, M. M. 912
Rodemich, E.; et al. (2894)
Ropela, S. (5681)
Salehov, D. V. 913
Schöler, U.; et al. 8259
Semenov, E. M. 13550
Skaff, M. S. (3395a-b)
Tam, K. W. 3385
Turpin, P. 11046
Uhl, J. J., Jr.; et al. (3475)
Vasil'ev, V. A. (5795),5821
Vitale, R. A.; et al. (2921)
Zippin, M. 914
Collection: Vulih, B. Z. 911
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (2894)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 3384
Séminaire Maurey-Schwartz 1974-1975: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 910,(8851)

46E35 *Sobolev spaces, embedding theorems, trace theorems, interpolation spaces*

Adams, David R. 5822
Adams, R. A. 13551
Adams, R. D.; et al. 915
Antonec, M. A.; et al. 916
Aronszajn, N.; et al. 915
Avantaggiati, Antonio 11047
Besov, O. V. 3387
Bliev, N. K.; et al. 8260
Brudynĭ, Ju. A. 5823
Burenkov, V. I. 917
Calderón, A. P. (10531)
Calderón, C. P.; et al. 3388
Chenais, Denise (13004)
Dubinskiĭ, Ju. A. (702),8261
Faĭn, B. L. 918
Faris, William G. 13552
Foht, O. S.; et al. (712)
Frolov, N. N. 13553
Gil'derman, Ju. I. (5417)
Gluško, V. P. (10528)
Golovkin, K. K. *8262
Gross, Leonard 8263
Hanna, M. S.; et al. 915
Isac, George (13103)
Jean, M. 5824
Kalugina, T. F. (13296)
Klimov, V. S. 8264
Kočarli, A. F. 3389
Korotkov, V. B. 3390
Krasnov, V. A.; et al. (712)
Kudrjavcev, L. D. 8265
Lascar, B. (3405)
Leĭzin, M. A. 13554
Lewis, Jeff E.; et al. 3388
Lizorkin, P. I. 8266
Marcus, Moshe; et al. 8267
Matveeva, I. I. 11048
Mehtiev, A. G. 3391
Mizel, Victor J.; et al. 8267
Muramatu, Tosinobu 8268
Neri, Umberto 11049
Nikol'skiĭ, S. M. 919
Otelbaev, M.; et al. 5825,8260
Peetre, J. 8269
Ramasanov, Marat 920
Ropela, S. (5710)
Rosen, Jay 13555
Rozenfel'd, E. A. 921,11050
Samko, S. G. 8270
Satygulova, S.; et al. 5825
Šereševskiĭ, I. A.; et al. 916
Stafney, James D. (837)
Triebel, Hans 922
Troisi, Mario 923,3392
Trombetti, Guido (8011)
Ul'janov, P. L. 3393,5820
Uninskiĭ, A. P. 3394
Wizimirski, Z.; et al. (2994)
Wolfe, Peter (2992)
Woronowicz, S.; et al. (2994)
Collection: Bhatnagar, P. L. 8265
Functional analysis and its application 3389
Imbedding theorems and their applications (Proc. Sympos., Baku, 1966) (5417)
Linear operators and approximation 919

46E40 *Spaces of vector- and operator-valued functions*

Choo, Seki Alexander; et al. 13557
Fakhoury, Micham 13556
Globevnik, J. (563)
Goodrich, Robert Kent (3474)
Gretsky, Neil E. (*3476)
Khurana, Surjit Singh; et al. 13557
Macdonald, Alan L. 11051
Prolla, João B. (11386)
Rao, Aribindi Satyanarayan 8271
Skaff, M. S. 3395a-b
Sourour, A. R. 13558
Turett, Barry; et al. 11052
Uhl, J. J., Jr.; et al. 11052

46E99 *None of the above, but in this section*

Enflo, Per (3661)
Peetre, Jaak (13590)
Reneke, James A. (499)
Ruess, Wolfgang (13533)
Turpin, Philippe (11028)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13590)

46Fxx Distributions, generalized functions, distribution spaces

Antosik, Piotr; et al. *924
Mikusiński, Jan; et al. *924
Sikorski, Roman; et al. *924
(Solomencev, E. D.) *924
(Žarinov, V. V.) *924

46F05 *Topological linear spaces of test functions and distributions*

Glaeser, G. (8710)
Krée, Paul (5828)
Kucera, Jan 5826
Swartz, Charles 3396
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle (8710)
Séminaire Pierre Lelong (Analyse), Année 1974/75 (5828)

46F10 *Operations with distributions*

Andersson, Karl G. 13559
Berenstein, Carlos A. 11053
Berg, L. 925
Braĭcev, G. G. (5608)
Braunss, G.; et al. 11054
Brédimas, Antoine 8272,8273
Bros, J.; et al. (7849)
Chen, Kuang-ho 3397
Conlan, J.; et al. (10986)
Drehmann, J.; et al. (10875)
Dwyer, Thomas (6180)
Enqvist, Arne (10826)
Epstein, H.; et al. (7849)
Faraut, Jacques (8348)
Fattorini, H. O. (5901)
Fisher, B. 926,5827,8274,11055,13560
Ghosh, J. D. (10987)
Glaser, V.; et al. (7849)
González Domínguez, Alberto; et al. 8275
Homentcovschi, D. 8276
Kartaševa, L. V. (875)
Koh, E. L.; et al. (10986)
Krée, Paul (13564)
Liese, R.; et al. 11054
Liu, Kuang Chi 927
Lovenstein, J. H.; et al. (1991)
Maire, H.-M. 8277
Malahovskaja, R. M.; et al. 928
Napalkov, V. V. (583)
Palamodov, V. P. (13139)
Pfaffelhuber, Ernst (9804)
Pisanelli, Domingos (10647)
Ramm, A. G. (3341)
Rao, G. L. N. 3398
Roth, B. 3399
Sampson, G.; et al. 13561
Sibirjakov, G. V. 3400
Šihmanter, E. D.; et al. 928
Speer, E.; et al. (1991)
Stora, R.; et al. (7849)
Sznajder, S.; et al. 3401
Trione, Susana Elena 8278
Trione, Susana Elena; et al. 8275
Vasilache, Sergiu 929
Werner, P.; et al. (10875)
Zielezny, Z.; et al. 3401,13561
Collection: Bhatnager, P. L. 5827
Functional analysis and applications (Proc. Sympos., 1972) (10647),13559
Hyperfunctions and theoretical physics (Rencontre, Nice, 1973; dédié à la mémoire de A. Martineau) (7849)
Mathematical questions, No. 3 928,3400
Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, Wissenschaftlicher Teil, 154 (Neuenburg, 1974) 8277

46F15 *Hyperfunctions, analytic functionals* [*See also* 32A25,32C35.]

Bony, J. M.; et al. (741)
Gorbačuk, M. L.; et al. 3402
Gorbačuk, V. I.; et al. 3402
Kawai, Takahiro (3767,11405)
Martineau, André (10646)
Schapira, P.; et al. (741)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10646)
Séminaire Goulaouic-Schwartz 1971-1972: Équations aux dérivées partielles et analyse fonctionnelle. Deux journées p-radonifiantes (741)

46Gxx Measures, integration, derivatives (For integration on infinite-dimensional spaces, see 28A40; for nonlinear functional analysis, see 58—XX, especially 58Cxx.)

46G05 *Derivatives*

Aronszajn, N. 13562
Citlanadze, K. Ž. (13967)
Costinescu, Olga (7733)
Daneš, Josef; et al. (3743)
Dorfman, I. Ja. 3403,(13970)
Durdil, Jiří (13968)
Durdil, Jiří; et al. (3743)
Fedotov, V. P. (8699)
Krée, Paul 5828
Lascar, B. 8279
Simonnet, Michel (11375,13969)
Smoljanov, O. G.; et al. (8700)
Treves, François (5575)
(Višik, M. I.) 8279
Collection: Bompiani, Enrico (7733)
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) (5575)
Esquisses mathématiques, No. 24 (11375)
Selected problems of mathematics and physics (8699)
Séminaire Pierre Lelong (Analyse), Année 1973-1974 8279
Séminaire Pierre Lelong (analyse), Année 1974/75 5828

46G10 *Vector-valued measures and integration*

Afanas'eva, L. G.; et al. (13010)
Bilyeu, Russell; et al. 13563
Brooks, James K.; et al. 8280
Bucchioni, Denièle (504)
Dinculeanu, Nicolae; et al. 8280
Faires, B.; et al. (7741)
Fomin, S. V.; et al. (8776)
Gowrisankaran, Kohur 8281
Kac, M. P. 8282
Lewis, Paul; et al. 13563
Morrison, T. J.; et al. (7741)
Niculescu, Constantin P. 8283
Nowak, B. 5829
Oba, Yukio 8284
Petunin, Ju. I.; et al. (13010)
Romanov, V. A. 3404
Smoljanov, O. G.; et al. (8776)
Tortrat, A. (13027)
Tsitsas, L. 930
Wagner, Daniel H. (8417)
White, A. J. (5433)
Functional analysis and its applications (Internat. Conf., Madras, 1973) 8281

46G15 *Lifting theory*

Castaing, Charles (2907)
Levin, V. L. 11056

46G20 *Infinite-dimensional holomorphy*

Alencar, Raymundo 5830
Aron, Richard M. 5831
Boland, Philip J. 8285
Chmielowski, Jan 8286
Coeuré, Gérard (7850,7853)
Colombeau, J. F. 8287
Dineen, Seán 11057,11058

46G20 *Continued*

Globevnik, J. (905),5832
Greenfield, Stephen J. (7846)
Lelong, Pierre (7859,8234)
Pisanelli, Domingos 8288
Schottenloher, Martin (3024)
Trupin, Philippe (8204)
Vigué, Jean-Pierre (7873)
Analyse fonctionnelle et applications (Comptes Rendus Colloq. d'Analyse, Inst. Mat., Univ. Federal Rio de Janeiro, Rio de Janeiro, 1972) 8288
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) (7859)
Functional analysis and applications (Proc. Sympos., 1972) (7853)
Proceedings on Infinite Dimensional Holomorphy (3024,7846),8285,8287,11057
Séminaire Pierre Lelong (Analyse), Année 1969 (7850)
Sémin-ire Pierre Lelong (Analyse), Année 1973-1974 (8204,8234)
Séminaire Pierre Lelong (Analyse), Année 1974/75 5831

46G99 *None of the above, but in this section*

Castaing, Charles (14102)
Frolov, N. N. (13553)
Helton, Jon C. (11064)
Hsu, Ih Ching; et al. 11059
Krée, Paul 13564
Kuller, Robert G.; et al. 11059
Lascar, B. 3405
Liverani, Francesco 11060
Terracher, Pierre H. 8289
Turpin, Philippe (11028)
Zanelli, Vanna 11061

46Hxx Topological algebras, normed rings and algebras, Banach algebras (For group algebras, convolution algebras and measure algebras, see 43—XX.)

Bonsall, Frank F.; et al. (*11013)
Duncan, John; et al. (*11013)

46H05 *General theory*

Chilana, Ajit Kaur 13565
Khalealulla, S. M. (5780)
Kolodner, Ignace I. 13566
Langmann, Klaus (13133)
Lata, Suman 13567
Milne, Hamish K. (5855)
Mosak, Richard D. *3406
Oshobi, E. O. 11062,13568
Tripp, John C. 5833
Tullo, Alan W. 3407

46H10 *Ideals and subalgebras*

Aupetit, Bernard 8290
Harte, R. E. 5834
Algebras in analysis (Proc. Insturctional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 5834

46H15 *Representations*

Keimel, Klaus (10099)
Lectures on the applications of sheaves to ring theory (10099)

46H20 *Structure, classification*

Davenport, John W. 931
Johnson, B. E. 5835
Mallios, Anastasios 8291
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 5835
Functional analysis and its applications (Internat. Conf., Madras, 1973) 8291

46H25 *Normed modules and Banach modules*

Bīlan, Ē. P.; et al. 11063
De Grand-De Kimpe, Nicole; et al. 3408
Kaup, Ludger; et al. 3408
Semencov, O. V.; et al. 11063
Vasilache, Sergiu; et al. 3408

46H99 *None of the above, but in this section*

Helton, Jon C. 11064
Leinert, Michael 8151

46Jxx Commutative Banach algebras

Bonsall, Frank F.; et al. (*11013)
Duncan, John; et al. (*11013)

46J05 *General theory*

Aupetit, Bernard 3409
Crownover, Richard M. 5836
Grabiner, Sandy *3410
Haghany, Ghodsieh 3411
Mosak, Richard D. (*3406)
Taylor, J. L. 5837
Varela, Januario 932
Zalcman, Lawrence 940
Zame, William R. 3412
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 5837

46J10 *Banach algebras of continuous functions, function algebras*

Asano, Tomiko 13569
Batikjan, B. T.; et al. 933
Bierstedt, Klaus-Dieter (3371)
Boviatsis, Alexandre *934
Craw, I. G. 8292
Curtis, P. C., Jr. (*903)
Daly, John T.; et al. 13570
Delbaen, F. 13571
Détraz, J. 8293
Dwonum, Philip B.; et al. 13570
Escassut, Alain (3027,13132)
Gamelin, T. W. 11065
Gamelin, T. W.; et al. 3413
Garnett, John; et al. 3413
Glicksberg, I. (3306)
Gorin, E. A.; et al. 933,8294
Grigorjan, S. A. 13572
Hag, Per 3414
Johnson, B. E. 3415
Karahanjan, M. I.; et al. 8294
Kishi, Kazuo 8295
Kronstadt, Eric P. (5501)
Mel'nikov, M. S. 13573
Nakazi, Takahiko 5838,8296
Nemirovskiĭ, A. S. 936
Sarason, Donald 3416
Sato, Ryotaro 13574
Semenov, S. M. 937
Šilov, G. E. 935
Stout, Edgar Lee *11066
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 8292
Jahrbuch Überblicke Mathematik, 1976 (3371)

46J15 *Banach algebras of differentiable or analytic functions, H^p-spaces* [*See also* 30A98,32E25.]

Apresjan, S. A. 3417
Hayashi, Mikihiro (13083)
Krasičkov-Ternovskiĭ, I. F. (10624)
Leśniewicz, R. 13575
McDonald, John N. 3418
Nagel, Alexander; et al. (13135)
Øksendal, Bernt 11067
Osadčiĭ, M. M. 3419
von Renteln, Michael 13576
Rochberg, Richard 5839
Rudin, Walter (10643)
Rudin, Walter; et al. (13135)
Sibony, N.; et al. (7856)
Stoll, Manfred (5488)
Stout, Edgar Lee (*11066)
Wermer, J.; et al. (7856)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10643)

46J20 *Ideal, maximal ideals, boundaries*

Briggs, James M. 10068
Ortega Aramburu, Joaquín M.[a] 8297
Rennison, J. F. 11069
Warner, C. Robert; et al. 3420
Whitley, Robert; et al. 3420

46J25 *Representations*

Abel', M. A. 3421
Abel', M.; et al. 3422
Heringson, E.; et al. 3422
Khanh, Bui Doan 938
Information processing. Functional analysis 3421

46J30 *Subalgebras*

Lumer, G. 939

46J35 *Structure, classification*

Loy, R. J. 3423

46Kxx Rings and algebras with an involution

Bonsall, Frank F.; et al. (*11013)
Duncan, John; et al. (*11013)

46K05 *Ideals, subalgebras*

Bonsall, F. F. 13577
Chō, Muneo 941
Dales, H. G. 5840
Leptin, Horst 5841
Mosak, Richard D. (*3406)
Sebestyén, Z. 11070,13578

46K10 *Representations*

Ismagilov, R. S.; et al. 3425
Naĭmark, M. A.; et al. 3424
Uhlmann, A. (11072)
Mathematical analysis, 1968 3425

46K15 *Hilbert algebras*

Takesaki, Masamichi 5842
Mathematical aspects of statistical mechanics (Proc. Sympos. Appl. Math., New York, 1971) 5842

46K99 *None of the above, but in this section*

Gol'dšteĭn, M. Š.; et al. 942
Sarymsakov, T. A.; et al. 942

46Lxx Rings and algebras of operators, with or without involution (For other algebraic systems of operators, see 47Dxx.)

(Kastler, D.) (*9902)
(Laßner, G.) *3425
Beiträge zur Theorie nichtnormierbarer topologischer Algebren *3425
C^*-algebras and their applications to statistical mechanics and quantum field theory (*9902)
International School of Physics "Enrico Fermi", Course LX (*9902)
Nichtnormierbare topologische Algebren *3425
Quantum field theory (*9902)
Statistical mechanics (*9902)
Topological algebra *3425

46L05 *C^*-algebras (= B^*-algebras)* [*See also* 22D25.]

Akemann, Charles A.; et al. 13579
Alfsen, Erik M.; et al. 943
Choi, Man Duen; et al. 5843
Dooley, A. H. 5844
Effros, Edward G.; et al. 5843
Elliott, George A.; et al. 13579
Evans, David E. 8298
Fannes, M.; et al. (1963a-b)
Gasanov, G. M.; et al. (809)
Gültekin Büyükyenerel, K. 11071
Kallman, Robert R. (5384)
Kandelaki, T. K. (11333)
Lazar, A. J.; et al. 944
Lindblad, Göran 8299
Loebl, Richard I. 8300
Pedersen, Gert K.; et al. 13579

46L05 *Continued*

Popov, Vasil A.; et al. (809)
Rieffel, Marc A. (7695)
Ringrose, J. R. 13580
Robertson, Guyan 3426,5845
Sakai, Shôichirô 945,8301
Shultz, Frederic W.; et al. 943
Skau, C. F. 8302
Søreng, Jan 5846
Takahasi, Sin-ei 13581
Takesaki, Masamichi 8303
Taylor, D. C.; et al. 944
Tomiyama, Jun; et al. 13579
Uhlmann, A. 11072
Verbeure, A.; et al. (1963a-b)
Voiculescu, Dan 3427
Wassermann, Simon 13582
Wojtaszczyk, P. 13583
Woronowicz, S. L. 13584
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8303
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) 8302
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 13580
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 11071,13583

46L10 *von Neumann algebras (= rings of operators, W^*-algebras)*

Anastasio, Salvatore; et al. *3428
Araki, Huzihiro 13585
Atiyah, M. F. (8741)
Bratteli, Ola; et al. 13586
Ching, Wai Mee 8304
Ching, Wai Mee; et al. 8305
Combes, François; et al. 3429
Connes, A. 946
Delaroche, Claire; et al. 3429
Elliott, George A. 949
Feldman, Jacob; et al. (13033)
Havet, Jean-François 947
Ismagilov, R. S. (2887)
Katavolos, A. 5847
Krieger, Wolfgang (2915),3430
Lance, E. Christopher 8306,8307
Lau, Anthony To Ming 5848
Moore, Calvin C.; et al. (13033)
Nosov, V. N. 5849
Paschke, William L. 8308
Pedersen, Gert K.; et al. 948
Radjavi, Heydar; et al. 5850
Robinson, Derek W.; et al. 13586
Rosenthal, Peter; et al. 5850
Samuelidès, Manuel; et al. (7753)
Sauvageot, Jean-Luc; et al. (7753)
Strătilă, Serban; et al. 3431
Takai, Hiroshi 8309
Takemoto, Hideo 5851
Takesaki, Masamichi; et al. 948
Teleman, Silviu 950
Tomiyama, Jun 8310
Tsau, Chih Shun; et al. 8305
Versik, A. M. (514)
Voiculescu, Dan; et al. 3431
Willig, Paul Mitchell; et al. *3428
Zsidó, László; et al. 3431
Collection: Satô, Isuke 8310
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) (8741)

46L15 *Nonselfadjoint operator algebras on Hilbert space*

Apostol, Constantin; et al. 5852
Barnes, Bruce A. 3432
Foiaş, Ciprian; et al. 5852
Hsieh, M. S.; et al. 951
Lassner, G.; et al. 11073
Morrell, J. S.; et al. 951
Radjavi, Heydar 3433
Retherford, J. R.; et al. 951
Timmermann, W.; et al. 11073
Voiculescu, Dan; et al. 5852

46L20 *Operator algebras on Banach and linear topological spaces*

Bennett, G. 8311
Caradus, S. R.; et al. *3434
Esterle, Jean 13587
Gulick, Frances F. 5853
Hsieh, Ming-Shan 8312
Lapresté, J. T. 952
Linde, Werner 953
Pfaffenberger, W. E.; et al. *3434
Pietsch, Albrecht 954
Retherford, J. R. 955
Volkmann, Peter 8313
Wickstead, A. W. (13588)
Yood, Bertram; et al. *3434
Séminaire Maurey-Schwartz Année 1972-1973: Espaces L^p et applications radonifiantes 952

46L25 *Dual spaces of operator algebras and topological spaces*

Naĭmark, M. A. (7692)
Walter, Martin E. (12966)

46L99 *None of the above, but in this section*

Dupré, Maurice J. 3435
Evans, David E. 8314
Fell, J. M. G. 8315
Ismagilov, R. S.; et al. (3424)
Leinert, Michael (7694)
Naĭmark, M. A.; et al. (3424)
Nakagami, Yoshiomi 5854
Pusz, W.; et al. 8316
Rieffel, Marc A. (4415)
Woronowicz, S. L.; et al. 8316
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8315
Mathematical analysis, 1968 (3424)

46Mxx Categorical methods (See also 18—XX.)

46M05 *Tensor products*

Chevet, S. 3436
Funakosi, Shunsuke 3437
Guy, Noël (3364)
Heĭnrih, S. 956
Hollstein, R. 8317
Körezlioğlu, Hayri 8318
Milne, Hamish K. 5855
Saphar, Pierre 3438a-b
Schachermayer, Walter 5856
Wickstead, A. W. 13588
Proceedings of the Symposium on Functional Analysis (Istanbul, 1973) 8318
Séminaire Pierre Lelong (Analyse), Année 1974/75 5856
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes 3438a-b

46M10 *Projective and injective objects*

Courant, Simon 957
Neville, Charles W. (899)

46M15 *Functors*

Barr, Michael (11036,13522)
Botnaru, D. V. 11074
Cigler, J. 13589
Dierolf, Susanne 3439
Funakosi, Shunsuke 958
Pelletier, Joan Wick 5857
Semadeni, Zbigniew 5858
Symposia Mathematica, Vol. XVII 5858

46M20 *Homology and cohomology in functional analysis*

Johnson, B. E. (5835)
Lindblad, Göran (8299)
Rochberg, Richard (5839)
Taylor, J. L. (5837)
Algebras in analysis (Proc. Instructional Conf. and NATO Advanced Study Inst., Birmingham, 1973) (5835,5837)

46M35 *Abstract interpolation of topological vector spaces*

Boyd, David W. (909)
Edmunds, D. E.; et al. 5859
Heinig, H. P. (3384)
Holmstedt, Tord 3440
Kalugina, T. F. (13296)
Miyazaki, Ken-ichi 959
Moscatelli, V. B.; et al. 5859
Peetre, Jaak 13590
Petunin, Ju. I. 960
Semenov, E. M. 961
Tartar, Luc 11076
Williams, Vernon 962
Zippin, M. (914)
Actes du Colloque d'Analyse Fonctionnelle (Bordeaux, 1971) 11076
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13590
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (3384)

46M99 *None of the above, but in this section*

Lord, Harriet 5860
Palamodov, V. P. (13139)

47—XX OPERATOR THEORY

47-01 *Elementary exposition (collegiate level)*

Berberian, Sterling K. (*3342)
Page, M. K. (*3343)

47-02 *Advanced exposition (research surveys, etc.)*

Agranovskiĭ, M. L.; et al. (879)
Akilov, G. P.; et al. (879)
Berberian, Sterling K. (*5775)
Hille, Einar; et al. *11077
Kutateladze, S. S.; et al. (879)
(Musielak, Julian) *963
Phillips, Ralph S.; et al. *11077
Przeworska-Rolewicz, Danuta; et al. *963
Rolewicz, Stefan; et al. *963
Vuvunikjan, Ju. M.; et al. (879)

47-06 *Collections of papers; proceedings of conferences*

(Gamkrelidze, R. V.) *964
Itogi Nauki i Tehniki *964
Mathematical analysis, Vol. 12, Part 2 *964

47Axx Single linear operators: general theory

Sinha, Kalyan 14640

47A05 *Adjoints, conjugates*

Chung, Woon Kyung; et al. 5861
Hong, Suk Ho; et al. 5861
Höschel, Hans-Peter 13591
Spain, P. G. 13592

47A10 *Spectrum, resolvent, numerical range*

Apostol, Constantin 13593
Buoni, J. J. 3442
Buoni, J. J.; et al. 13594
Dash, A. T. 13595
Faires, J. D.; et al. 13594
Mirmans, B. 5862
Rai, S. N. 965
Shiu, Elias S. W. 966
Shonkwiler, R. 967

47A15 *Invariant subspaces*

Apostol, Constantin; et al. (5852)
Chilana, Ajit Kaur 11078
Deddens, James A. 968
Feintuch, Avraham (8342)
Foiaş, Ciprian; et al. (5852)
Lomonosov, V. I. 8319
Longstaff, W. E. 13596
Radjabalipour, M.; et al. 11079
Radjavi, Heydar (3433)
Radjavi, Heydar; et al. 969,(5850),11079
Rosenthal, Peter; et al. 969,(5850)
Soltan, V. P. 13597
Suljagić, Salih 970
Voiculescu, Dan; et al. (5852)
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 968,969

47A20 *Dilations, extensions, compressions*

Foiaş, Ciprian; et al. 5863
Górniak, J.; et al. 13598
Szafraniec, F. H. 13599
Sz.-Nagy, Béla; et al. 5863
Weron, A.; et al. 13598
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 5863

47A30 *Norms (inequalities, more than one norm, etc.)*

Bauer, F. L. (6476)
Sereda, P. P.; et al. 5864
Verbickiĭ, I. È.; et al. 5864
Collection of articles honoring Alston S. Householder (6476)

47A35 *Ergodic theory* [*See also* 28A65.]

Atalla, Robert E. 3443,5865
Fong, Humphrey 5868
Gologan, Radu-Nicolae (7747)
Guz, W. 8320
Lam, Ling Fai 11080
Lin, Michael 5869,5870
McGrath, S. A. 5866
Sato, Ryotaro (10567)
de la Torre, Alberto 5867

47A40 *Scattering theory* [*See also* 35J10.]

Belopol'skiĭ, A. L. 3444
Dollard, John D. (4419)
Evans, David E. 3445,(8314)
Howland, James S. 5871
Kako, Takashi (756)
Melik-Adamjan, P. È. (13600)
Mullin, Melvin 11081
Sahnovič, L. A. 3446
Tarnopol's'kiĭ, V. G. (10908)

47A45 *Canonical models for contractions and nonself-adjoint operators*

Ball, Joseph A.; et al. 5872
Foiaş, Ciprian; et al. 8321
Ghatage, P. 8322
Kreĭn, M. G.; et al. (11103)
Langer, H.; et al. (11103)
Lubin, Arthur 971,3447
Lubin, Arthur; et al. 5872
Pearcy, Carl; et al. 8321
Pekarev, È. L. 3448
Hilbert space operators and operator algebras (Proc. Internat. Conf., Tihany, 1970) (11103)

47A50 *Equations involving linear operators*

Anderssen, R. S.; et al. (13697)
Anton, Howard; et al. (1587)
Baker, George A., Jr.; et al. (4088)
Bakušinskiĭ, A. B. (11761)
Balaev, M. K.; et al. (3119)
Balĭnskiĭ, A. I. 972
Barnsley, M. F.; et al. (4088)
Borowsky, Michael S. (6477)
Brown, R. C. (10731)
Didenko, V. P.; et al. 5874
Donaldson, James A. (7985)
Dorofeev, I. F. (11765)
Dotson, W. G., Jr.; et al. 11084
Duris, C. S.; et al. (1587)
Exner, Pavel 973
Friedrich, Klaus 13601
Gaponenko, A. L.; et al. (9078)
Gaponenko, Ju. L. (1590)
Gaponenko, Ju. L.; et al. (9078)
Gaultier, Maurice 8323,(13243)
Goldstein, Jerome A. 3450
Grigorieff, Rolf Dieter 11082a-c
Groetsch, C. W. (878)
Gudovič, N. N. (11768)
Hudak, Ju. I. 11083
Jakubov, S. Ja.; et al. (3119)
Jerome, Joseph W. 13602
Kabulov, R. 3451,3452
Karma, O. O. (4091)
Kartasov, L. M.; et al. 3453
Korpaev, K. 5873
Kovalenko, S. P.; et al. 3453
Liskovec, O. A.; et al. (11771)
Ljaško, I. I. 5874
Locker, John (6495)
Magnaradze, L. G. 974
Malik, M. A. (671)
Menihes, L. D.; et al. 11086
Morozov, V. A. (11772)
Omodei, B. J.; et al. (13697)
Pace, J. Wayne; et al. 11084
Pankov, A. A. (8387)
de Pillis, J. (4075,11749)
Przeworska-Rolewicz, D. 975
Rosch, G. F. 8324
Rolewicz, Stefan (11137)
Samarin, M. K. 11085
Savčuk, V. F.; et al. (11771)
Singh, S. R. 8325
Suzuki, Noboru 976
Vinokurov, V. A.; et al. 11086
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) (11137)
Mathematical methods, and physical and mechanical fields, No. 1 972
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 3451,3452

47A55 *Perturbation theory*

Arestov, V. V. (8116)
Baumgärtel, H.; et al. 13603
Carey, Richard W. 3454
Demuth, M.; et al. 13603
Derguzov, V. I.; et al. (3117)
Greenlee, W. M. 8326,8327
Howland, James S. 5875
Kemp, R. R. D.; et al. (3077)
Kreĭn, S. G.; et al. (3741)
Kučment, P. A.; et al. (3741)
Lee, S. J.; et al. (3077)
Leiterer, Jürgen (5511)
Le Quang Chu 3455
Marek, I. 11087
McCarthy, Charles A. 3456
Melan'ina, T. M.; et al. (3117)
Ovčinnikov, V. I.; et al. (13979)
Pankov, A. A.; et al. (3741)
Timčenko, N. A.; et al. (3117)
Wrobel, Volker 3457
Zaĭdenberg, M. G.; et al. (3741,13979)
Approximation of functions and operators (8116)
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 3456
Problems of mathematical analysis, No. 5 (3117)

47A60 *Functional calculus*

Apostol, Constantin 977
Baillet, Michel 13604
Faraut, Jacques (8348)
Grabiner, Sandy (*3410)
Gulick, Frances F. (5853)
Kantorovitz, Shmuel 3458
Khanh, Bui Doan (938)
Nelson, Edward 978
Pavlov, B. S. 3459
Pusz, W.; et al. (8316)
Tel'ner, K. 3460
Woronowicz, S. L.; et al. (8316)

47A65 *Structure theory*

Apostol, Constantin 5877
Apostol, Constantin; et al. 3461,(5852),5876,13605
Douglas, R. G.; et al. 13605
Fialkow, L. A. 979
Filimonov, O. P. 980
Foiaş, Ciprian; et al. (5852),5876,8330,13605
Fujii, Masatoshi; et al. 11088
Gil', M. I. 3462
Gohberg, I. C.; et al. 13606
Gordienko, V. N. (561)
Gray, L. J. 13607
Gupta, B. C. 5879
Heinig, Georg; et al. 13606
Herrero, Domingo A. 5878
Isaev, G. A. 13608
Kajiwara, Mitsuharu; et al. 11088
Kato, Yoshinobu; et al. 11088
Kisilevs'kiĭ, G. È. 8328
Kostjučenko, A. G.; et al. 3463
Kubo, Fumio; et al. 11088
Larionov, E. A. 981
Orazov, M. B. 3464
Orazov, M. B.; et al. 3463
Patel, S. M. 13609
Radzĭevs'kiĭ, G. V. 3465,8329
Saitô, Teishirô 13610
Salinas, Norberto; et al. 3461
Sergeev, A. G. 982
Sz.-Nagy, Béla; et al. 8330
Voiculescu, Dan (3427)
Voiculescu, Dan; et al. (5852),5876
Wadhwa, Bhushan L. 3466
Wu, Pei Yuan 983

47A70 *Eigenfunction expansions, rigged Hilbert spaces. Eigenvalue problems in general* [*See also* 49-XX.]

Arscott, F. M. 11089
Astrahancev, G. P. (11760)
Baumgärtel, H. 14625
Giertz, Magnus 5880
Gorbačuk, M. L.; et al. (3402)
Gorbačuk, V. I.; et al. (3402)
Kållström, A.; et al. 5881
Ramalho, R. 8331
Sleeman, B. D.; et al. 5881
Collection: Smirnov, V. I. 13611
Functional analysis and applications (Proc. Sympos., 1972) 8331
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 11089
Spectral theory and asymptotics of differential equations (Proc. Conf., Scheveningen, 1973) 5880

47A99 *None of the above, but in this section*

Davies, E. B. (14628)

47Bxx Single linear operators: special classes of operators

Legg, David A.; et al. 986
Scranton, Bruce E.; et al. 986
Ward, Joseph D.; et al. 986

47B05 *Compact operators, Riesz operators*

Bachelis, Gregory F. (3362)
Brown, L. G.; et al. 984
de Bruyn, G. F. C. 985
Buhvalov, A. V. (3369a-b)
Caradus, S. R.; et al. (*3434)
Chui, C. K.; et al. 5882
Dazord, Jean 8332
van Dulst, D. 5883
Edgar, G.; et al. 5884
Ernest, J.; et al. 5884
Holub, J. R. 5885
Hsieh, M. S.; et al. (951)
Lee, S. G.; et al. 5884
Legg, David A.; et al. 986
Morrell, J. S.; et al. (951)
Pfaffenberger, W. E.; et al. (*3434)
Retherford, J. R. (955)
Retherford, J. R.; et al. (951)
Schochet, Claude; et al. 984
Smith, P. W.; et al. 5882
Triebel, Hans (922)
Vladimirskiĭ, Ju. N. 11090
Ward, J. D.; et al. 5882
Yood, Bertram; et al. (*3434)

47B10 *Hilbert-Schmidt operators, trace class operators, nuclear operators, etc.*

Assouad, P. (6296)
Badrikian, A. 5886
Bennett, G. (8311)
Burillo López, Pedro J. 13612
Carl, B. 11091,11092
Dubinsky, Ed; et al. (*8229)
Garling, D. J. H.; et al. (896)
Gordon, Y.; et al. (896)
Hsieh, Ming-Shan (8312)
Iséki, Kiyoshi 987
Lapresté, J. T. (952)
Martin, Jacqueline 5887
Maurey, B. 8333,(13024),13613,13614
Pełczyński, A. 988
Pietsch, Albrecht (954)
Ramanujan, M. S.; et al. (*8229)
Ramunujan, Melapalayam S. 989
Retherford, J. R.; et al. (3368)
Saphar, Pierre (3438a-b),8334
Schwartz, Laurent (900,5425a-c,8775)
Stegall, C. P.; et al. (3368)
Sunyach, C. 8335
Tsitsas, L. (930)
Walker, Gail R. 990
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (900)
Les probabilités sur les structures algébriques (8775)
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes (3438a-b,5425a-c),5886, 5887,(6296),8334,8335
Séminaire Goulaouic-Schwartz 1972-1973: Equations aux dérivées partielles et analyse fonctionnelle 13613
Séminaire Maurey-Schwartz Année 1972-1973: Espaces L^p et applications radonifiantes (952,13024)
Séminaire Maurey-Schwartz 1973-1974: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 8333,13614

47B15 *Hermitian and normal operators (spectral measures, functional calculus, etc.)*

Brown, Arlen 8336
Butts, Robert R.; et al. 5888
Carey, R. W.; et al. 8337
Fox, David W. 13615
Hosack, J. M. 991
Pincus, J. D.; et al. 8337
Porcelli, Pasquale; et al. 5888
Topics in operator theory 8336

47B20 *Subnormal operators, hyponormal operators, etc.*

Campbell, Stephen L.; et al. 5889
Gellar, Ralph; et al. 5889
Mocanu, Gh. 11093
Olin, Robert F. 8338
Shah, N. C.; et al. 992
Sheth, I. H.; et al. 992
Stampfli, Joseph G. 8339
Yoshino, Takashi 3467

47B25 *Symmetric and self-adjoint operators (unbounded)*

Aleksandrov, E. L.; et al. 11094
Bennewitz, Ch. 3468
Bruk, V. M. 3469
Cekanovs'kiĭ, È. R.; et al. 3470
Il'muškin, G. M.; et al. 11094
Okunskiĭ, M. D.; et al. 3470
Us, G. F. 3471
Conference on the Theory of ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 3468

47B30 *Fredholm operators*

Kroh, Helmut 993
Webb, J. H. 13616
Yang, Kung Wei 11095

47B35 *Toeplitz operators, Wiener-Hopf operators [For other integral operators, see also 47G05.]*

Duduĉava, R. V. 994-996
Heinig, Georg 11096
Hirschman, I. I., Jr. 997
Hively, G. A. 998
Janas, J. 999,(8744)
Kahane, Jean-Pierre (814)
Lax, Peter D. 13617
Malyšev, V. A. 1000
Prouza, Ludvík 5890
Silbermann, Bernd 13618
Stegenga, David A. 8340
Takano, Katsuo (6290)
Thomson, James 5891
Collection: Functional analysis, 2 994,995
Linear operators and approximation, II (814)

47B37 *Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)*

Antonevič, A. B.; et al. (3754)
Bartelt, Martin 1001
Bastian, Joseph J. 8341
Brennan, James E. (11042)
Brooks, James K.; et al. (8280)
Chong, Kong Ming 5892
Diestel, J. 1003
Dinculeanu, Nicolae; et al. (8280)
Drahlin, M. E.; et al. 3472
Drewnowski, L. 11097
Fakhoury, Hicham (13556)
Feintuch, Avraham 8342
Gellar, Ralph; et al. 13619
Goodrich, Robert Kent 3474
Gretsky, N. E. 3475,3476
Gretsky, N. E.; et al. 3475
Gretsky, Neil E. *3476
Gutnikov, E. V.; et al. 11099
Iwanik, Anzelm 1004
Janas, J. 13620
Johnson, William B. 13621
Kim, Choo Whan 13622
Korobeĭnik, Ju. F. 1005
Kramer, G. L. 13623
Lubin, Arthur 3477
Niculescu, Constantin P. (8283)
Ohno, Yoshiki 5893
Peng-Nung, Ng 5894
Plyševskaja, T. K. 3473
Plyševskaja, T. K.; et al. 3472
Poliščuk, E. M. 11098
Sadikov, N. M. 8343
Sato, Ryotaro (13574)
Schubert, C. F. 1006
Şerban-Tofan, Doina 8344
Silber, Robert; et al. 13619
Singh, R. K. 5895
Sobolevskii, M. E. 5896
Spitkovskiĭ, I. M. 1007
Sznajder, S.; et al. (3401)
Tam, K. W. (3385)
Tkacenko, V. A. 3478
Uhl, J. J., Jr.; et al. 3475
Vasilevskiĭ, N. L.; et al. 11099
Vol'pert, Ju. V.; et al. (3754)
van Winter, Clasine 5897
Ždanov, S. I. 1008
Zielezny, Z.; et al. (3401)
Zippin, M. (914)
Approximate solution of boundary value problems and of functional equations 3472,3473
Collection: Vulih, B. Z. 1008

47B40 *Spectral operators*

Bacalu, I. 3479,3480
(Bade, William G.) *1009
(Bartle, Robert G.) *1009
Dowson, H. R. 11100
Dowson, H. R.; et al. 5898
Dunford, Nelson; et al. *1009
Erdelyi, I. 3481
Gillespie, T. A. 3482
Gillespie, T. A.; et al. 5898
Kitano, Koh-ichi 3483
Lutz, Dieter 3484
Plafker, Stephen 11101
Schwartz, Jacob T.; et al. *1009
Spain, P. G.; et al. 5898
Suciu, Ion; et al. (11476)
Valuşescu, Ilie; et al. (11476)

47B44 *Dissipative operators, accretive operators, etc.*

Pavlov, B. S. 13611
Purdom, Seaton D. 8345

47B45 *Difference operators*

Sljusarčuk, V. E. (775)
Tarnopol's'kiĭ, V. G. (10908)
Analytic methods for the study of the solutions of nonlinear differential equations (775)

47B47 *Commutators*

Anderson, Joel; et al. 1010
Apostol, Constantin; et all 1011
Boyd, David M. 1002
Chander, Subhash 13624
Foiaş, Ciprian; et al. 1010
Stampfli, Joseph; et al. 1011

47B50 *Operators on a space with an indefinite metric*

Azĭzov, T. Ja. 11102
Hackevič, V. A. 3489
Helton, J. William 3485
Iohvidov, E. I. 3486,3487
Ismagilov, R. S.; et al. (3424)
Kreĭn, M. G.; et al. 11103
Langer, H.; et al. 11103
Melik-Adamjan, F. È. 1012
Naĭmark, M. A.; et al. 3424
Nikonov, A. A.; et al. 3488
Orlov, S. A. 13625
Raĭn, L. M. 3490
Utkin, V. I.; et al. 3488
Hilbert space operators and operator algebras (Proc. Internat. Conf., Tihany, 1970) 11103
Mathematical analysis, 1968 (3424)

47B55 *Operators on ordered spaces*

Alame, Sami 11104
Duhoux, Michel; et al. (11022)
Grigore, Gh. 8346
Krawczyk, R. (6493)
Krieger, Hans-Jürgen 3491
Kučkarov, Ja. H.; et al. 13626
Kühne, R. 3492
Kutateladze, S. S. 8225
Mahmudov, H.; et al. 13626
Marek, Ivo 3493,3494
Miyajima, Shizuo 11105
Ng, Kung Fu; et al. (11022)
Saryusakov, T. A.; et al. 13626
Schaefer, Helmut H. (*11023)
Wickstead, A. W. (8228)
Methoden und Verfahren der mathematischen Physik, Band 7 (6493)

47B99 *None of the above, but in this section*

Ivanov, L. A. 1013
Lord, Harriet (5860)
Saeks, R. 1014

47Cxx Single linear operators as elements of algebraic systems

47C05 *Operators in algebras*

Conway, John B.; et al. 13627
Wu, Pei Yuan; et al. 13627

47C10 *Operators in *-algebras*

Coburn, L. A.; et al. 3495
Moyer, R. D.; et al. 3495
Singer, I. M.; et al. 3495
Voiculescu, Dan (3427)

47C15 *Operators in von Neumann algebras*

Elliott, George A. (949)
Pedersen, Gert K.; et al. (948)
Takesaki, Masamichi; et al. (948)

47C99 *None of the above, but in this section*

West, T. T. 1015
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 1015

47Dxx Algebraic systems of linear operators (For rings and algebras of operators, see 46Kxx, 46Lxx.)

47D05 *Semigroups of operators [For Markov processes, see 60Jxx.]*

Burns, J. A.; et al. (5578)
Cannon, John T. 1016
Chernoff, Paul R. *5899
Da Prato, G. 8347
Deny, Jacques (7822)
D'jacenko, S. V. 1017
Eberlein, W. F. 8352
Faraut, Jacques 8348,(10985)
Fattorini, H. O. 5901
Favini, Angelo 8349
Goldstein, Jerome A. 3496a-b
Górniak, J.; et al. (13598)
Herdman, T. L.; et al. (5578)
Ivanov, V. V. 11106
Jørgensen, Palle E. T. 11107
Kaizu, Satoshi 3497
Kato, Tosio 5900
Kurtz, Thomas G. (13245),13628
Lacomblez, Chantal 8350
Lovelady, David Lowell 1018
Lovicar, Vladimír (3122)
Lumer, Gunter (8056)
Masani, P. 8351
Mastrangelo-Dehen, Michèle (5799)
McGrath, S. A. 8353
Mil'šteĭn, G. N. 3498
Opočev, V. I. (8605)
Prozorovskaja, O. I. 13629
Ramaswami, S. (8145)
Rapoport, È. O. (1401)
Ščerbakova, R. I. 13630
Sentilles, F. Dennis 1019
Smagin, V. V.; et al. 13631
Sobolevskiĭ, P. E.; et al. 13631
Sohr, H. (8057)
Sova, Miroslav 3499
Suzuki, Masuo 13632
Ushijima, Teruo 8354
Weron, A.; et al. (13598)
Wild, Claude 3500
Yoshinaga, Kyôichi 5902
Collection: Brelot, Marcel (8056)
Methoden und Verfahren der mathematischen Physik, Band 16 (8057)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (10985)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (7822)
Séminaire de Théorie du Potentiel (14e année: 1970/71) (5799)

47D10 *Groups of operators*

Berkson, Earl; et al. 5903
Ciorănescu, Ioana; et al. 5904
Fleming, Richard J.; et al. (3372)
Goldstein, Jerome A.; et al. (3372)
de la Harpe, Pierre (6188)
Jamison, James E.; et al. (3372)
Oharu, Shinnosuke 3501
Porta, Horacio; et al. 5903
Šneĭberg, I. Ja. (13982)
Zsidó, László; et al. 5904

47D15 *Linear spaces of operators*

Gleit, Alan; et al. 5905
Gretsky, Neil E. (*3476)
Lazar, Aldo J.; et al. 5905
Vraciu, G. 3502

47D20 *Convex sets and cones of operators*

Schaefer, Helmut H. (*11023)

47D99 *None of the above, but in this section*

Buche, A. B.; et al. 8355
Vasudeva, H. L.; et al. 8355

47E05 Ordinary differential operators (See also 34B25, 58Fxx.)

Benzinger, Harold E. (3073)
Brown, R. C. 1020
Coddington, Earl A. 3503
Džrbašjan, M. M. (3074)
Eastham, M. S. P. (5535)
Eastham, M. S. P.; et al. (3075)
Firsova, N. E. 5906
Glick, Noel (10734)
Gol'dšteĭd, I. Ja.; et al. (7940)
Ibragimov, M. A. 8356
Il'in, V. A. 3504
Kabak, G. I.; et al. (7942)
Kočubeĭ, A. N. 11108
Korobeĭnik, Ju. F. (7923)
Kutoviĭ, V. O. 13633
Lando, Ju. K.; et al. (7942)
Lee, S. J. 1021
Levitan, B. M. (10885)
Mišnaevskiĭ, P. A. (10790)
Molčanov, S. A.; et al. (7940)
Müller-Pfeiffer, E. (13205)
Otelbaev, M. 5907,(10738)
Russakovskiĭ, E. M. 3505
Siroĭd, Ĭ. P. 3506,8357
Suvorčenkova, G. A. (3080),13634
Unsworth, K.; et al. (3075)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10885)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (3075)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 3503
Mathematical methods, and physical and mechanical fields, No. 1 8357
Mathematical questions in the theory of wave propagation, 7 5906

47F05 Partial differential operators (See also 35Pxx, 58Gxx.)

Berg, I. D. 3507
Biroli, Marco (8051)
Jörgens, K. (8047)
Levitan, B. M. (10885)
Lopatinskiĭ, Ja. B. 3508
Maksudov, F. G.; et al. 13635
Mihlin, S. G. 3509
Mirošin, N. V. (10846)
Pham The Lai (753)
Simon, Barry 11109
Sinestrari, Eugenio 13636
Veliev, S. G.; et al. 13635
Walsh, Bertram (6213)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (10885)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (8047)
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) (6213)
Studies of special questions in the theory of differential equations 13635

47G05 Integral, integro-differential, and pseudodifferential operators (See also 35Sxx, 58Gxx.)

Anaya, Marta 871
Antonevič, A. B. 1022
Aranda, Pedro Jorge; et al. 11110
Berg, Lothar (10995)
Bloom, Frederick 5908
Blozinski, A. P. (3383)
Cardoso, Fernando (13268)
Cattaneo, Enrique Pedro; et al. 11110
Denčev, Rado 13637
Doktorskiĭ, R. Ja. (3150)
Duducava, R. V. 1023
Egorov, Ju. V. (769,770)
Engibarjan, N. B. 8358
Favini, Angelo 3449
Fedosov, B. V. (8743)
Feĭgin, V. I. 1024
Guillemin, Victor (3769)
Haĭkin, Ju. E. 3510
Hannsgen, Kenneth B. 5909
Janos, Ludvik (13885)
Jeggle, Hansgeorg (1680)
Jucan, T. (703)
Kakičev, V. A. 3511
Karadžov, G. E. 3512
Kilbas, A. A. 5910
Kokilašvili, V. M. 3513
Koshiba, Zen'ichirô; et al. 1025
Kulešov, A. A. 1026,(11000)
Kumano-go, Hitoshi; et al. 1025
Lascar, B. (8279)
Levin, A. Ju.; et al. 13638a-b
Ljubarskiĭ, Ju. I. 13639
MacCamy, R. C. (11004)
Nagel, Alexander; et al. (10994)
Nielsen, Børge P. D.; et al. (11414)
Nourrigat, Jean (10905)
Pavlov, E. A. 11111
Pelešenko, B. I. 1027
Piriou, Alain 3514
Radžabov, È. L. 1028
Ragimhanov, R. K. 3515
Roĭtburd, V. L. 3516,(10895)
Samko, S. G. (8270)
Sampson, G.; et al. (13561)
Stepanov, G. D.; et al. 13638a-b
Stetkaer, Henrik; et al. (11414)
Taylor, Michael E. 3517
Ton, Bui An (755)
Vasilevskiĭ, N. L. 3518
(Višik, M. I.) (8279)
Wainger, Stephen; et al. (10994)
Zielezny, Z.; et al. (13561)
Collection: Theory of functions, 6 3513
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) (3769)
Séminaire Pierre Lelong (Analyse), Année 1973-1974 (8279)

47Hxx Nonlinear operators

(Swaminathan, Srinivasa) *11112
Fixed point theory and its applications (Proc. Sem., Dalhousie Univ., Halifax, N. S., 1975) *11112
Mechanics of deformable bodies *1029
Nonlinear analysis *1029
Some problems in nonlinear analysis and the mechanics of deformable bodies *1029

47H05 *Monotone operators*

Brezis, Haim 8359,11113
Comte, Pierre; et al. (11764)
Fitzpatrick, S. P. 13640
Klimov, V. S. 11114
Miellou, Jean-Claude; et al. (11764)
Pierre, Michel 5911
Robert, Raoul 5912
Spiteri, Pierre; et al. (11764)
Webb, J. R. L. 5913
Conference on the Theory of Ordinary and Partial Differential Equations 5913
Partial differential equations and related topics (Program, Tulane Univ., New Orleans, La., 1974) 11113
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 8359

47H10 *Fixed point theorems*

Achari, J. (6109)
Amann, Herbert 3519
Assad, Nadim A. 8360
Bharucha-Reid, A. T. (1390)
Bogin, Joseph 5914
Bolen, J. C.; et al. 11115
Bona, J. 8361
Brézis, H.; et al. 8362,13641
Brøndsted, Arne 5915
Browder, F. E.; et al. 8362,13641
Daneš, Josef (6110)
Del Prete, Immacolata 5916
Diminnie, Charles R.; et al. 11116
Eells, James; et al. (13989)
Elenskiĭ, Ju. N. 11117
Fournier, Gilles; et al. (13989)
Guzzardi, R.; et al. 5919
Hadžić, O. (3118)
Hansel, Georges; et al. (8602)
Hayden, T. L.; et al. 5917
Iséki, Kiyoshi 13642,13643
Ishikawa, Shiro 1030
Istrăţescu, Vasile 3520,3521
Jankowski, Tadeusz (14358)
Kamenskiĭ, M. I. (6185)

47H10 *Continued*

Kasahara, Shouro (11306)
Kellogg, R. B. 11118
Kellogg, R. B.; et al. (4087)
Klimov, V. S. (1289)
Kubiaczyk, Ireneusz (1196)
Laloux, B.; et al. 11119
Li, T. Y.; et al. (4087)
Lim, Teck Cheong 11120
Magnus, R. J. (6191)
Markin, J. T. 1031,8363
Martelli, Mario; et al. 5918
Mawhin, J.; et al. 11119
Obuhovskiĭ, V. V. 3522
de Pascale, E.; et al. 5919
Pokornyĭ, Ju. V. 3523
Rhoades, B. E. 5920
Sehgal, V. M. 13644
Sehgal, V. M.; et al. 1032
Šerman, P. B. (1279)
Singh, K. L. 11121
Singh, S. P.; et al. 1032,1033
Skordev, Genco S. (13901)
Smart, D. R. 11122
Staples, John 3524
Suffridge, T. J.; et al. 5917
Troallic, Jean-Pierre; et al. (8602)
Veitch, Mary; et al. 1033
Vignoli, Alfonso; et al. 5918
White, Albert G., Jr.; et al. 11116
Williams, B. B.; et al. 11115
Yorko, J.; et al. (4087)
Collection:
Bhatnagar, P. S. 1033,11121
Shimizu, Tatsujiro (11306)
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) 8361
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) (13989)

47H15 *Equations involving nonlinear operators*

Abeasis, Anna Flávia (720)
Alefeld, G. (14355)
Amann, Herbert; et al. (5620)
Aširov, S.; et al. (1588),5921
Atdaev, S.; et al. (1588)
Avila, J. H., Jr. (6487)
Backwinkel-Schillings, Margot 13645
Balázs, M. 5922
Baliev, A. (737)
Biroli, Marco 8364-8366
Busygin, V. P. 11123
Bykov, Ja. V.; et al. 11126
Carton-Lebrun, C. 5923
Cesari, Lamberto 13646
Chow, Shui Nee; et al. (3753)
Crandall, Michael G. 8367
Cushing, J. M. 5924
Da Prato, Giuseppe; et al. 13647
Dias, João-Paulo 8368
Edwards, D. A. 3525
Fedorenko, Ju. D.; et al. 8370
Fitzgibbon, W. E. (7986)
Fučik, Svatopluk; et al. 5925
Gajewski, Herbert; et al. 11124
Glonti, L. I. 5926
Gorbunov, A. D. 1034
Gordon, Noam; et al. 5927
Grigorieff, Rolf Dieter 3526
Grisvard, Pierre; et al. 13647
Gröger, Konrad (10784)
Gröger, Konrad; et al. 11124
Hahn, Siegfried 11125
Hale, Jack K.; et al. (3753)
Heinz, Hans-Peter 1035
Hetzer, Georg (724)
Hoppensteadt, Frank; et al. 5927
Hudaverdiev, K. I. (740)
Iannelli, Mimmo 13648
Isac, George 8369
Ize, Jorge 13649
Kabulov, R. (3452)
Kabulov, R.; et al. 11126
Kolomý, Josef 5928
Konishi, Yoshio (3138)
Kucenko, L. V.; et al. 8370
Kusakin, I. A. (4092)
Laetsch, Theodore 13650
Laetsch, Theodore; et al. (5620)
Lagnese, John 8371
Lê-Ngoc-Lăng 3527
Lika, D. K. (*6494)
Lions, J. L. 5929
MacBain, John Alan 3528
Mallet-Paret, John (11378)
Mallet-Paret, John; et al. (3753)
Mamedov, Ja. D.; et al. 5921
Milota, Jaroslav; et al. 5925
Mönch, Wolfgang (14362)
Nečas, J. 8372
Pavel, N. 8373,8374
Podolak, E. 13651
Rios, Hélène 11127
Rjazanceva, I. P. 3529
Šafiev, R. A. (1595)
Schmitt, Klaus (10724)
Sibony, Moïse 8375
Sidorov, N. A.; et al. 1036,1037
Sonntag, Yves (9081)
Stampacchia, Guido 13652
Stokes, A. 3530
Stroescu, Elena; et al. 8376
Tanana, V. P. (6497)
Tanana, V. P.; et al. (11774)
Timonov, A. A.; et al. (11774)
Ton, Bui An 13653
Trenogin, V. A.; et al. 1036,1037
Vivaldi, Maria Agostina; et al. 8376
Voss, H. (1598)
Wildenauer, P. 3531
Wozniakowski, H. (6498)
Yamada, Yoshio 13654
Application of functional methods to the boundary value problems of mathematical physics 8372
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974), (10724)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 8367
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) (737,740,3452)
Studies in contemporary problems of summability and approximation of functions, and their applications 8370
Symposia Mathematica, Vol. XVI 3525
Theory of nonlinear operators (Summer School, 1972) 5928
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 3531

47H99 *None of the above, but in this section*

Arveson, William 5930
Baillon, Jean-Bernard 13655
Ball, John M. 3532
Chandra, Jagdish; et al. 8377
Citlanadze, K. È. (13967)
Daneš, Josef; et al. (3743)
De Blasi, Francesco S.; et al. 13656
Decarlo, R. A.; et al. 1038
Durdil, Jiří (13968)
Durdil, Jiří; et al. (3743)
Eisenfeld, J.; et al. 13657
Fleishman, B. A.; et al. 8377
Isac, George (8223)
Krikorian, Nishan (13966)
Lakshmikantham, V.; et al. 13657
Lê Châu Hoàn 8378
Myjak, Józef; et al. 13656
Neuberger, J. W. 13658
Pazy, A. 13659
Riddell, R. C. (13990)
Saeks, R.; et al. 1038
Šragin, I. V. 1039
Tartar, Luc (11076)
Actes du Colloque d'Analyse Fonctionnelle (Bordeaux, 1971) (11076)

49—XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL

{See also 34H05, 93Exx.}

Helton, J. William (4764)
Kung, C. F. (4767)
Recent trends in system theory (4764)

49-01 *Elementary exposition (collegiate level)*

Berkovitz, Leonard D. 8379
(Ermol'ev, Ju. M.) *13660
Ljusternik, L. A. *13660

49-02 *Advanced exposition (research surveys, etc.)*

Coppel, W. A. 11128
Gurman, V. I.; et al. *5931
Hermes, Henry; et al. *8380
Holmes, Richard S. *8381
Krotov, V. F.; et al. *5931
LaSalle, Joseph P.; et al. *8380
Morse, Marston *8382

49-06 *Collections of papers; proceedings of conferences*

(Cesari, Lamberto) *1040
Control theory (*12416-*12418)
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. I (*12416)
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. II (*12417)
Control theory and topics in functional Analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. III (*12418)
Existence theorem issue of J. Optimization Theory Appl. *1040
Functional analysis (*12416-*12418)

49Axx Existence theory for optimal solutions

49A05 *Free problems in one independent variable*

Boglaev, I. P.; et al. (4617)
Savel'ev, B. V.; et al. (4617)

49A10 *Problems involving ordinary differential equations*

Ahmed, N. U. 1041
Akulenko, L. D. 13661
Asner, Bernard A., Jr.; et al. 8383
Balachandra, M. (7964)
Baum, R. F. 13662
Berkovitz, Leonard D. 3533
Boyarsky, A. (7041)
Costal, J. B. 8384
Damm, Heinz 13663
Friedland, S.; et al. 11129
Halanay, A.; et al. 8383
Mirica, Stefan 11130
Moore, J. B. 5932
O'Malley, R. E., Jr. 3534
Pljako, D. A. 11131
Reid, William T. 1042
Schiffer, M.; et al. 11129
Zolezzi, T. 3535
Existence theorem issue of J. Optimization Theory Appl. 13662
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 1042
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) 3533

49A15 *Free problems in two or more independent variables*

Moór, A. 8385

49A20 *Problems involving partial differential equations*

Aliferov, V. V. 1043
Arndt, Dieter 13664
Bidaut, M. F. 3536
Bottaro, Gianfranco 8386
Budak, B. M.; et al. (3165)
Fatterini, E. O. 5933
Friedman, Avner; et al. (3160)
Gaponenko, Ju. L.; et al. (3165)
Glashoff, Klaus; et al. 11132
Hullett, Wayne 5934
Kinderlehrer, David; et al. (3160)
Morozov, S. F. 3537
Roĭtberg, Ja. A.; et al. 11133
Šeftel', Z. G.; et al. 11133
Sibony, Moïse 1044
Weck, Norbert; et al. 11132
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 5933
Difference methods of solution of boundary value problems for integro-differential equations (3165)
Existence theory in the calculus of variations and optimal control 3536
Numerische Behandlung von Variations- und Steuerungsproblemen 13664

49A25 *Problems in abstract spaces*

Cesari, Lamberto 11134
Knowles, G. 1045
McGlothin, Gerald E. 11135
Mignot, F. 11136
Pankov, A. A. 8387
Rolewicz, Stefan 1046,11137
Scott, Peter D. 13665
Sertel, M. R. 8388
Strang, Gilbert 13666
Vinter, R. B. (12285)
Actes du Contrès International des Mathématiciens (Nice, 1970), Tome 3 11134
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 11137

49A30 *Problems involving functional relations other than differential equations*

Clarke, Frank H. 1047,13667
Popov, V. M. 13668
Seĭdov, Z. B. (13258)
Warga, J. 11138
Collection: Neustadt, Lucien W. 11138
Ordinary differential equations: 1971 NRL-MRC Conference 13668

49A35 *Optimal solutions belonging to restricted classes (bang-bang controls, etc.)*

Dauer, Jerald P.; et al. 1048
Parthasarathy, T. (*5420)
Schmets, J. 3538
Tonkov, E. L. 8389
Van Vleck, F. S.; et al. 1048

49A50 *Topology of solutions, weak and strong minima, semicontinuity, convexity, orientor fields*

Berkovitz, Leonard D. 11139
Borgogno, Maria 8390
Gerhardt, Claus 5935
Goor, Robert M. 13669
Joly, Jean-Luc; et al. 1049
Olech, Czesław 8391
de Thelin, François; et al. 1049
Zanelli, Vanna (11061)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 8391,11139

49A99 *None of the above, but in this section*

Goodwin, Graham C.; et al. 13670
Kabaila, Paul V.; et al. 13670
Le Breton, Alain 11140
Lieber, Z. 13671
Morozov, S. F.; et al. 8392
Ng, Tung Sang; et al. 13670
Petrov, V. V.; et al. 8392
Sim, Lak Chong (9773)

49Bxx Necessary conditions and sufficient conditions for optimality

49B05 *Free problems in one independent variable*

Geering, Hans P. (9780)

49B10 *Problems involving ordinary differential equations*

Agračev, A. A.; et al. 13672
Balin, E. A.; et al. 3539
Bereženskiĭ, T. A.; et al. 11141
Berkovitz, Leonard D. 13673
Campbell, Stephen L. (12292)
Clarke, Frank H. 3540
Gamkrelidze, R. V.; et al. 13672
Kun, L. A. 3541
Mohov, V. N. 3542
Musaev, Samandar 13674
Ostrovskiĭ, G. M. 11141
Russak, I. Bert 5936,11142
Salukvadze, M. 13675
Seĭsov, Ju. B. 3543
Seĭsov, Ju. B.; et al. 3539
Volin, Ju. M.; et al. 11141
Warga, J. 5937

49B15 *Optimal solutions belonging to restricted classes*

Eyman, Earl D.; et al. 8393
Maĭstrovskiĭ, G. D.; et al. (1293)
Ol'hovskiĭ, Ju. G.; et al. (1293)
Subrahmanyam, M. B.; et al. 8393
Questions on numerical mathematics and computer science (Proc. Res. Sem., Inst. Low Temp. Phys. Engrg., Kharkov, 1975) (1293)

49B20 *Free problems in two or more independent variables*

Gurvitch, E. L. 13676

49B25 *Problems involving partial differential equations*

Ahiev, S. S. 13677
Athans, Michael; et al. 11143
Johnson, Timothy L.; et al. 11143
McGlothin, Gerald E. (12290)
Sročko, V. A. 8394
Unger, F. 1050,1051

49B30 *Problems in abstract spaces*

Andry, A. N.; et al. 8395
Fattorini, H. O. 13678
Fisher, Stephen D. 8396
Gamkrelidze, R. V.; et al. 11144
Haratišvili, G. L.; et al. 11144
Hiriart-Urruty, Jean-Baptiste 13679
Hoàng Tuy 3544
Jean, M. (13688)
Kurcyusz, S. 13680
Lantos, B. 13681
Lasiecka, Irena 5938
Lempio, F. 1052
Mysovskih, P. I. 3545
Neustadt, Lucien W. 13682
Seierstad, A. 3546
Walker, J. A.; et al. 8395
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 11144,13682
Non-linear mechanics (C.I.M.E., 1972) (13688)
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 1052

49B35 *Problems involving functional relations other than differential equations*

(Aumüller, P.) *1053
Boltjanskiĭ, V. G. *1053
Dmitruk, A. V. 13683
Dzjuba, N. N.; et al. 3547
Eyman, Earl D.; et al. 13685
Frankena, J. F. 11145
Lempio, F. 13684
Popescu, V. 8397
Pšeničnyĭ, B. N.; et al. 3547
Schwarzkopf, A. B. 5939
Strel'cov, S. V. 8398
Sudhakar, Divakaruni P.; et al. 13685
Warga, J. (11138)
Collection of articles dedicated to the memory of Lucien W. Neustadt (11138)
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 13684

49B40 *Minimax problems*

Barbieri, Francesco (3553)
Bhargava, S. 3548
Cruceanu, Stefan (14785)
Demjanov, V. F. (9683)
Gel'fand, M. A. (12211)
Hoang Tuy 13686
Oberwolfach-Tagung über Operations Research (1974), Siebente (14785)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (9683)

49B50 *Sensitivity of optimal solutions in the presence of perturbations*

Dončev, Asen L. (2269)

49B99 *None of the above, but in this section*

Farkas, Miklós 3549
Halkin, Hubert 10525
Stojanov, N. V.; et al. (2234)
Žukovskiĭ, V. I.; et al. (2234)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (10525)

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

49C05 *Free problems and problems involving ordinary differential equations*

Bistrickas, V. 8399
Gonzalez, Roberto 8400
Komatsuzaki, Toshio 5940

49C15 *Problems in abstract spaces or involving functional relations other than differential equations*

Bensoussan, A. 11146
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11146

49C99 *None of the above, but in this section*

Bistrickas, V. 11147
Đukić, Đorđe S. (4235)
Fukushima, Masao; et al. (6951)
Krasovskiĭ, A. A. 5941
Mine, Hisashi; et al. (6951)
Ohno, Katsuhisa; et al. (6951)

49Dxx Methods of successive approximations

Budak, B. M.; et al. *8401,*8402
Vasil'ev, F. P.; et al. *8401,*8402

49D05 *Methods based on necessary conditions*

Nair, G. Gopalakrishnan (4104)

49D10 *Methods of steepest descent type*

Allwright, J. C. 11148
Bertsekas, Dimitri P. (4094)
Miele, A. 1054
Collection: Busemann, Adolf 1054

49D15 *Methods of Newton-Raphson, Galerkin and Ritz types*

Hager, William W. 3550
Landesman, E. M.; et al. 8403
Lazer, A. C.; et al. 8403
Meyers, David R.; et al. 8403

49D25 *Finite difference methods*

Celmiņš, Aivars (1632)
(Haas, W. R.) (1632)
Haas, Willard R.; et al. (1631)
Levikov, A. A. 5942
(Wnek, W. J.) (1632)
Wnek, Walter J.; et al. (1631)

49D30 *Other methods, not based on necessary conditions (penalty function, etc.)*

Allahverdieva, N. K. 1055
Barnard, Robert D. 1056,1057

49D30 *Continued*

Bojanov, Borislav D.; et al. (13378)
Boykin, William H., Jr.; et al. 5943
Bullock, Thomas E.; et al. 5943
Cvetanov, Mitko; et al. (13378)
Ehlert, J. 3551a-b
Kaplan, A. A. 11149
Kolmanovskiĭ, V. B. 3552

49D35 *Methods of linear programming type*

Potter, James E.; et al. (14373)
Speyer, Jason L.; et al. (14373)
Womble, M. Edward; et al. (14373)

49D45 *Methods of convex programming type*

Barbieri, Francesco 3553

49D99 *None of the above, but in this section*

Baeger, Ingo; et al. (12286)
Berkovič, E. M.; et al. (14405)
Blaquière, Augustin 5944
Döring, Peter; et al. (12286)
Fortin, Michel 5945
Golubeva, A. A.; et al. (14405)
Huntley, E.; et al. (9084)
Kiričenko, M. F.; et al. (7990)
Koval'skiĭ, I. P.; et al. (7990)
Kung, C. F.; et al. 8405
März, Roswitha; et al. (12286)
Mossinc, J. *8404
O'Malley, R. E., Jr.; et al. 8405
Polak, E.; et al. 13687
Roux, J. (11784)
Shimizu, Kiyotaka (2218)
Turner, P. R.; et al. (9804)
Williamson, L. J.; et al. 13687
Certain questions on simulation and systems control (7990)
Methods for the solution of boundary value and inverse problems of heat conduction (14405)

49Exx Controllability and geometry of control problems

49E05 *General dependence on controls*

Albrecht, Felix (3713)
Seidman, Thomas I. 5946
Wei, Kuang Chung (4743)
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 5946
Forschungsinstitut für Mathematik, ETH. (3713)

49E15 *Attainable sets, controllability*

Antonovič, T. N. 3554
Conti, R. 11150
Dauer, Jerald P. 3555
Guljakina, N. A. 3556
Hermes, Henry (8719,11389)
Ignatenko, V. V. 3557
Jacobs, Marc Q.; et al. 5947
Jean, M. 13688
Kaaz, M. A. (9698)
Klamka, Jerzy (12264)
Langenhop, C. E.; et al. 5947
Markus, Lawrence; et al. 13689
Mirza, Kais B.; et al. 11151
Muljarčik, V. V.; et al. 8409
Musaev, Samandar (13674)
Naumovič, R. F. 5948
Nefedov, S. A.; et al. 3558
Pandolfi, L. 13690
Parks, P. C. 1058
Roxin, Emilio O. 8406
Russell, David L. (13248)
Seĭsov, Ju. B. 8407
Sell, George R.; et al. 13689
Šolohovič, F. A.; et al. 3558
Sugiura, I.; et al. 8408
Wang, P. K. C. 11152
Womack, Baxter F.; et al. 11151
Yamamoto, Y.; et al. 8408
Zabello, L. E.; et al. 8409
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 11150
Non-linear mechanics (C.I.M.E., 1972) 13688
Numerische Behandlung von Variations- und Steuerungsproblemen 8406
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11389)

49E20 *Interrelations between stability problems and optimization problems*

Garaščenko, F. G. (652)
Nečitaĭlo, A. V. 13691
Russell, David L. 1059
Szegő, G. P. 5949
Talpalaru, Pavel 13692
Certain questions on simulation and systems control (652)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 1059
Stability problems of solutions of differential equations (Proc. NATO Advanced Study Inst., Padua, 1965) 5949

49E25 *Effect of perturbations on controllability*

Binding, Paul 1660
Dauer, Jerald P. 3559
Kokotović, Petar V. 8410
O'Malley, R. E., Jr. 8411
Ordinary differential equations: 1971 NRL-MRC Conference 8411
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 8410

49E99 *None of the above, but in this section*

Goruškina, N. V. 8412
Kailath, Thomas; et al. 8413
Weinert, Howard L.; et al. 8443

49Fxx Manifolds

49F10 *Minimal surfaces*

Barbosa, J. L.; et al. (1292)
Bombieri, Enrico 13693
do Carmo, M.; et al. (1292,6006)
Fomenko, A. T. 3560
Gaveau, Bernard; et al. (13988)
Giaquinta, Mariano 8414
Harth, Fritz Peter 5950
Kinderlehrer, David (8014)
Massari, U.; et al. 8415,8416
Mazet, Edmond; et al. (13988)
Morgan, Frank 3561
Novosad, P.; et al. (6006)
Pepe, L.; et al. 8415,8416
Reilly, Robert C. (13797)
Schoen, R. (11243)
Simon, L.; et al. (11243)
Steffen, K. 5951
Tromba, A. J. (6197)
Wente, Henry C. (8462)
Yau, S. T.; et al. (11243)
Yoon, Ryung Ho 5952
Current problems in mathematics, Vol. 1 3560
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) 13693
Symposia Mathematica, Vol. XIV 8414

49F20 *Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds* [*See also* 58A25.]

Allard, W. K.; et al. 13694
Almgren, F. J., Jr.; et al. 13694
Wagner, Daniel H. 8417

49F22 *Existence and structure of solutions to variational problems in geometric measure-theoretic setting*

Allard, W. K. 8418
Almgren, F. J., Jr. 8419,8420
Caffarelli, L. A.;et al. 1061
Fomenko, A. T. 13695
Lawson, H. Blaine, Jr. (13116)
Massari, Umberto 5953
Pitts, Jon T. 11153
Rivière, N. M.; et al. 1061
Taylor, Jean E. 8421
Geometric measure theory and minimal surfaces (C.I.M.E., 1972) 8418,8419
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 13695
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (13116)
Symposia Mathematica, Vol. XIV 8421,11153

49F25 *Surface area*

Gerhardt, Claus 3562

49F99 *None of the above, but in this section*

Averna, Alfonso 3563
Caffarelli, Luis A. 13696
Cinquini, Silvio 11154
Finn, Robert (6677)
Symposia Mathematica, Vol. XIV (6677)

49Gxx Variational methods and eigenvalues

49G05 *Variational approach to eigenvalues*

Benci, V.; et al. 1062
Micheletti, A. M.; et al. 1062
Philippin, Gérard A. (13338)

49G20 *Linear operators in Hilbert spaces*

Andersson, R. S.; et al. 13697
Kuhnert, F. (14359)
Omodei, B. J.; et al. 13697
Wilkins, J. Ernest, Jr. 3564
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) (14359)

49G99 *None of the above, but in this section*

Werner, J. 13698
Numerische Methoden der Approximationstheorie, Band 2 13698

49H05 Variational principles of physics

Anderson, N.; et al. 11155
Arthurs, A. M.; et al. 11155
Razumihin, B. S. 13099,13700

50—XX GEOMETRY (For algebraic geometry, see 14—XX.)

50-01 *Elementary exposition (collegiate level)*

Karzel, Helmut; et al. *13701
Lingenberg, Rolf *8422
Lingenberg, R.; et al. *13702
Mihăileanu, N. *8423
Scherk, P.; et al. *13702
Sörensen, Kay; et al. *13701
Verde Star, Luis 1063
Windelberg, Dirk; et al. *13701

50-02 *Advanced exposition (research surveys, etc.)*

Kárteszi, F. *11156
Satyanarayana, Kesiraju *3565
(Vekerdi, L.) *11156

50-03 *Historical*

Pedoe, Dan (2381)

50Axx Foundations

50A05 *Euclidean*

Degen, W.; et al. *1064
Profke, L.; et al. *1064

50A10 *Noneuclidean*

Kurbanov, N. 3580

50A15 *Transformation groups*

Boltjanskiĭ, V. G. 13703
Salow, Edzard 3566
Foundations of geometry (Proc. Conf., Univ. Toronto, Toronto, Ont., 1974) 3566

50A20 *Algebraic characterizations* [*See also* 06A75, 12K05, 16A76, 16A78, 16A80, 17D05, 17E05, 20N10.]

Cameron, Peter J. (*7269)
Cooperstein, Bruce N. (383)
Friedlein, Heinz-Reiner 5954
Strambach, Karl (2649)
Vasiu, Angela 5955a-b

50A25 *Models* [*See also* 02H15.]

Makowiecka, H. (2448)

50Bxx Euclidean geometry (including equiform geometry)

50B05 *Constructions*

Fritsch, R. 3567
Gyarmathi, A.; et al. 13704
Gyarmathi, L.; et al. 13704
Haight, Frank A. 13705
Knight, G. H. 3568
Levi, Howard 5956
Spectrum of mathematics (Essays presented to H. G. Forder) 13705

50B10 *Metric formulas*

Bilinski, Stanko 1065
Boldescu, Petre 3569
Chong, F. 13706
Degen, W. 5957
Farrahi, Bijan 3570
Gerber, Leon 13707
van Hoorn, M. C. 5958
Izaak, D. F. 8424
Kulev, N. V.; et al. 8425
Monzingo, M. G. 8426
Savov, T. P.; et al. 8425
Spectrum of mathematics (Essays presented to H. G. Forder) 13706

50B15 *Inequalities*

Collins, Michael J.; et al. 13708
Kahane, Jean-Pierre; et al. 13708
Klamkin, Murray S. 8427
Wunderlich, Walter 11157
Collection: Bompiani, Enrico 11157

50B20 *Geometry of circles*

Evelyn, C. J. A.; et al. *1066
Hohenberg, Fritz 3571
Money-Coutts, G. B.; et al. *1066
Tyrrell, J. A.; et al. *1066

50B25 *Euclidean and equiform geometry over fields other than the reals*

Fešin, G. M. 11158,11159
Lingenberg, Rolf 1067

50B30 *Regular figures, division of space* [*See also* 20H15.]

Delone, B. N.; et al. 1068
Dolbilin, N. P. 8428
Florian, A.; et al. (8454)
Florian, H.; et al. (8454)
Galiulin, R. V.; et al. 1068
Gilpin, Michael 3572
Kárteszi, Ferenc 3573
Štogrin, M. I.; et al. 1068
Sunday, J. G. (177)
Current problems in mathematics, Vol. 2 1068

50Cxx Other metric geometries

50C05 *Elliptic and hyperbolic, general*

Calapso, Renato 3574
Familiari-Calapso, Maria Teresa 1069,5959
Hašimov, Š.; et al. 1070
Jusupov, A.; et al. 1070
Lübbert, Christoph (5996)
Menger, Karl 13709
Novickiĭ, O. N. 8429
Skopec, Z. A.; et al. 8430
Strommer, J. 1071
Šumilov, A. N.; et al. 8430
Szász, Pál *1072
Vrănceanu, G. 5960
Geometry and topology, No. 1 8429
Spectrum of mathematics (Essays presented to H. G. Forder) 13709

50C25 *Other metric geometries*

Abbasov, N. T.; et al. (6001)
Anisimov, Ja. Ja. 13710
Dicuonzo, Vincenzo 8431
Dornfeld, Engelbert; et al. 1073,13711
Jasins'ka, Ē. U. 11160
Kiotina, G. V. 11161
Knap, K.; et al. 13711
Kolokol'ceva, I. I.; et al. (6001)
Krawczyk, Jerzy; et al. 1073
Kuklewski, J.; et al. 13711
Kutmanov, Z. 11162
Proskurina, R. G. 5961,11163
Reveruk, N. V. 8432,8433
Rudenko, A. B. (10329)
Schröder, Eberhard M. 11164
Smith, James T. 13712
Susloparova, G. P. 13713
Višnevskiĭ, V. (7513)
Collection: Candidates' works of Kirgiz State University (physico-mathematical and natural sciences), No. III 11162
Differential geometry 13710,13713
Geometry collection, No. 13 (10329)
Geometry of imbedded manifolds 8432,8433
Geometry and topology, No. 1 11161
Grundlagen der Geometrie und algebraische Methoden 13712

50Dxx Geometries of other transformation groups

50D05 *Affine geometry, general*

Aleksandrov, A. D.; et al. 13714
Arnold, Hans-Joachim 5962
Barlotti, A.; et al. 8434
Coda, A. (12944)
Dubikajtis, Lech 1074
Fritsch, Rudolf 1075
Kárteszi, Ferenc (3573)
Kopylov, A. P.; et al. 13714
Kuz'minyh, A. V.; et al. 13714
Lorimer, Joseph W. 8435
Nicoletti, G.; et al. 8434
Pickert, Günter 1076
Roy, G.; et al. (12919)
Ruoff, D.; et al. 11165
Šaĭdenko, A. V.; et al. 13714
Vranceanu, G.; et al. (12919)

50D10 *Affine geometry, subgroups (centroaffine, equiaffine)*

Ellers, Erich W. 3575

50D15 *Descriptive geometry*

Alb, Th. 8436,8437
Brauner, H. 3576
Clark, James H. (4216)
Imecs, Maria 8436,8437
Muregan, Elena; et al. 8437
Wunderlich, Walter 3577
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 3576

50D20 *Projective geometry over the reals*

Hohenberg, Fritz 1077

50D25 *Projective geometry over other infinite fields*

Błach, Anna; et al. 13715
Jank, Walther 8438
Palej, Marian; et al. 13715
Plymen, R. J.; et al. 3578
Shilleto, J.; et al. 11165
Williams, C. M.; et al. 3578

50D30 *Projective geometry over finite fields*

Dicuonzo, Vincenzo 8439
Dye, R. H. (2830)
Hale, Mark P., Jr. (10046)
Parsons, T. D. (2526)
de Witte, Paul (10048)

50D35 *Projective geometry over combinatorial or nonfield structures*

(Artmann, B.) 13720
Bacon, Phyrne Youens *11166
Bartocci, Umberto; et al. 11167
Betten, Dieter 1078
Bruen, Aiden A.; et al. 11168
Dekker, J. C. E. (7235)
(Dembowski, P.) 13716
(Dorn, G.) 13720
Drake, David A.; et al. 5964
(Drake, David A.) 13720
Faina, Giorgio; et al. 11167
Ganley, Michael J. 13716
Hotje, Herbert 5965
Igošin, V. I. (206)
Johnson, N. L. 13717
Kunakova, I. V.; et al. 11169
Kuppuswamy Rao, K.; et al. 8441
Mäurer, Helmut 1079
Menichetti, Giampaolo 8440
Mirzo-zade, D. I.; et al. 11169
Narayana Rao, M. L.; et al. 8441
(Ostrom, T. G.) 13716
Payne, S. E.; et al. (7290a-b)
Rahilly, Alan 13718
Reiman, István 5966
Sandler, Reuben 1080
Thas, J. A. (7290a-b),11168
Törner, Günter; et al. 5964
(Törner, Günter) 13720
Torre, Anna 11170
Walker, Michael 8442,13719
Bibliography: Hjelmslev geometry 13720
Collection: Albert, Abraham Adrian 1080
Differential geometry, No. 1 (206)

50D40 *Line geometry*

Mizori-Oblak, Pavlina *8443

50D45 *Circle and sphere geometry: Lie, Laguerre, Möbius*

Bruck, R. H. 8444
Hartmann, Erich 8445
Heise, Werner; et al. (114)
Krier, Nicholas 5967
Schaeffer, Helmut 3579
Seybold, Hans; et al. (114)
Volenec, Vladimir 11171
Proceedings of the International Conference on Projective Planes (1973) 5967

50D50 *Geometries of other space elements*

Dugas, Manfred 8446
Havel, Václav 1081

52—XX CONVEX SETS AND GEOMETRIC INEQUALITIES

52A05 *Convex sets without dimension restrictions*

Bair, J. 5968,11172,13721
Bessaga, C. (8640)
Bryant, Victor (5797)
Dessard, A. 1082
Edwards, D. A. (13531)
Fedotov, V. P. 1083
Hoang Tuy (13519)
Kutateladze, S. S. (3357)
Maumus, Jean (11027)
Pranger, Walter 8447
Schechter, Murray 5969
Weiss, Ernst-August, Jr. 1084
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13531)
Collection: Vulih, B. Z. 1083

52A10 *Convex sets in 2 dimensions*

Breen, Marilyn 5970
Daneš, Josef (5803)
Silverman, Ruth 3581

52A15 *Convex sets in 3 dimensions*

Golubcova, T. V. 3582
Geometry and topology, No. 1 3582

52A20 *Convex sets in n dimensions*

Aitchison, Peter W.; et al. (9990)
Breen, Marilyn 5971,13722
Breen, Marilyn; et al. 5972
Collier, J. B. 13723
Epelman, M.; et al. 8449
Figiel, T.; et al. (8237)
(Ger, Roman) 8448
Hammer, Roswitha 3583
Herman, Gabor T.; et al. (9990)
Kay, David C.; et al. 5972
Kuczma, Marek; et al. 8448
Kutateladze, S. S. 1085
Lindenstrauss, J.; et al. (8237)
Lindquist, Norman F. 3584,3585
Milman, V. D. (8237)
Nirenberg, L. 1086
Rogers, C. A. 11173
Schneider, Rolf 3586
Waksman, Z.; et al. 8449
Weil, Wolfgang 8450
Collection: Vulih, B. Z. 1085
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 11173

52A25 *Convex polyhedra*

Altshuler, A.; et al. 11174
Bernšteĭn, D. N. 8451
Chong, Kong Ming 5973
Ewald, G.; et al. 3587
Grünbaum, Branko 3588
Kleinschmidt, Peter 13724
Kleinschmidt, P.; et al. 3587
Lawrence, Jim 3589
Schulz, Ch.; et al. 3587
Shachtman, Richard (2206)
Steinberg, L.; et al. 11174
The geometry of metric and linear spaces (Proc. Conf., Michigan State Univ., East Lansing, Mich., 1974) 3588,3589

52A30 *Star-shaped sets*

Allen, John Ed 3590
Gruber, Peter 5974
Lutwak, Erwin 3591
Vangeldère, J. 3592

52A35 *Helly-type theorems*

Boltjanskiĭ, V. G. 3593

52A40 *Inequalities and extremum problems*

Averbuh, N. D.; et al. 1087
Bandle, Catherine 13726
Bokowski, J.; et al. 8452
Choi, Jae-Rong 13727
Das Gupta, Somesh (13008)
Diskant, V. I. 11175
Elkington, G. B.; et al. 3594
Emelicev, V. A.; et al. 1087
Freeman, J. W. 1088
Hadwiger, H.; et al. 1089
Hammer, J.; et al. 3594
Hortobágyi, István 13728
Kravcov, M. K.; et al. 1087
Odlyzko, A. M.; et al. 8452
Sawyer, D. B. 3595
Temesvari, Agota 13729
Vrănceanu, G. G. 13730
Wills, J. M.; et al. 1089

52A45 *Packing and covering*

Brun, Viggo 8453
Čoka, G. 5975,5976
Crittenden, Richard B.; et al. 1090
Fejes Tóth, G. 5977
Groemer, H. 1091
Hadwiger, H. 1092
Hollai, Márta 5978a-b
Horváth, J. 13731
Kleitman, Daniel J.; et al. 11176
Krieger, Michael M.; et al. 11176
Molnár, J. 13732
Sallee, G. T. 5979
Stojan, Ju. G. *13733
Swanson, Leonard G.; et al. 1090

52A50 *Hilbert geometry and other distance geometries*

Bašilova, V. I. 5980
Florian, A.; et al. 8454
Florian, H.; et al. 8454
Mah, P.; et al. 3596
Martin, C.; et al. 5981
Naimpally, S. A.; et al. 3596
Očan, Ju. S. 8455,8456
Valentine, J. E.; et al. 5981
Whitfield, J. H. M.; et al. 3596
Collection: Differential geometry 5980

53—XX DIFFERENTIAL GEOMETRY

(For differential topology, see 57Dxx. For foundational questions of differentiable manifolds, see 58Axx.)

Klingenberg, Wilhelm *3598

53-01 *Elementary exposition (collegiate level)*

Efimov, N. V. *3599
Mihăileanu, N. (*8423)
Singer, I. M.; et al. (*1273)
Thorpe, J. A.; et al. (*1273)

53-02 *Advanced exposition (research surveys, etc.)*

(Blair, David E.) *11178
(Chen, Bang Yen) *11178
Ingarden, Roman S. 11177
(Kontovt, V. I.) *3597
(Lohin, V. V.) *3597
Santaló, L. A. 1093
Sokolnikoff, I. S. *3597
Conference on Differential Geometry (Michigan State Univ., E. Lansing, Mich., 1976) *11178
Differential geometry (Proc. Conf., Michigan State Univ., E. Lansing, Mich., 1976) *11178

53-06 *Collections of papers; proceedings of conferences*

(Krugljakov, L. Z.) *1094
(Redozubova, O. S.) *13734
(Ščerbakov, R. N.) *1094
Atti del Convegno Internazionale di Geometria Differenziale (Ist. Geom., Univ. Bologna, Bologna, 1967) *8457
Convegno Internazionale di Geometria Differenziale Ist. Geom., Univ. Bologna, Bologna, 1967) *8457
Differential geometry, No. 2 *5982,*8457,*13734
Geometria differenziale *8457
Geometry *13734
Geometry collection, No. 15 *1094
Non-Euclidean geometry *13734
Questions of differential and non-Euclidean geometry *13734

53Axx Classical differential geometry

53A05 *Curves and surfaces in euclidean spaces*

Amato, Francesco 5983
Awasthi, G. D.; et al. 13737a
Bazylev, V. T. 1095
Dobrotvorskiĭ, A. S. 1096
Frank, Hubert; et al. 5984
Gawryleczyk, Irena 11179
Giering, Oswald; et al. 5984
Gol'dberg, V. V. 5985,5986
Gončarov, V. G. 1097,1098
Gonzalez, M. O. 13735
Hacisalihoğlu, H. H.; et al. 8459
Ivanov, A. D. 13736
Koch, Richard 8458
Lin'kova, G. N. 3602
Nasrullaev, N. L. 11180
Özdamar, E.; et al. 8459
Rastogi, S. C.; et al. 13737a-b
Sachs, Hans 3600
Sjarova, A. B. 5987
Teleman, Costache 11181
Timošenko, V. V. 8460
Trivedi, H. K. N.; et al. 13737a-b
Vincensini, Paul 3601,5988
Collection: Differential geometry 5985,13736
Geometry of imbedded manifolds 1095-1098
Geometry and topology, No. 1 3602
Proceedings of the Seminar of the Department of Geometry, No. VII 11180

53A10 *Change of topology, comparison of topologies*

Barbosa, J. L.; et al. (1292)
do Carmo, M.; et al. (1292)
Efimov, N. V. 13738
Gackstatter, Fritz 8461,11182
Meeks, William H., III 13739
Morgan, Frank (3561)
Steffen, K. (5951)
Strubecker, Karl 5989
Wente, Henry C. 8462
Collection: Bompiani, Enrico 5989

53A15 *Affine differential geometry*

Alšibaja, È. D. 11183
Arnold, Irmingard; et al. 8463
Barthel, Woldemar; et al. 8463
Fešin, G. M.; et al. 1099
Iljapova, E. A. 11184
Magazinnikov, L. I. 11185
Onišcuk, N. M.; et al. 5990
Ovečkin, A. I. 5991
Pečnikov, I. A. 8464,(13961)
Pelyh, V. A.; et al. 1099
Protopopova, O. I.; et al. 5990
Roman'kova, T. P. 13740
Skorobagat'ko, V. Ja.; et al. 1099
Tolstova, G. D. 13741
Collection: Bompiani, Enrico 1277,8463
Grincevičius, Kleopas 11183
Geometry collection, No. 9 8464
Geometry collection, No. 12 5990,11185
Geometry collection, No. 15 13740,13741
Mathematical methods, and physical and mechanical fields, No. 1 1099
Selected problems of mathematics and physics 5991

53A20 *Projective differential geometry*

Akivis, M. A.; et al. 5992,8465
Anisimov, Ja. Ja. 13742
Bakmuratov, H. A.; et al. 5992
Careva, B. B. 5993
Degen, W. 8467
Dragnev, M. V.; et al. 13743
Fljaĭšer, A. (6034)
Ivanov, A. D. 5994
Korsakova, L. G. 11186
Krugljakov, L. Z. (10256)
Mahorkin, V. V. 11187,11189
Makoha, A. N. 8468
Malahovskiĭ, V. S. 11188
Malahovskiĭ, V. S.; et al. 11187,11189
Manna Ciarrapico, Lucia 8466
Marcus, Froim 1100,8469
Mathar, R. 11190
Molinari, Loris 8470

53A20 *Continued*

Ostianu, N. M. 11191
Ovčinnikov, V. M. 11192
Popov, Ju. I. 13744
Rogovoĭ, M. R. 8471
Ryžkov, V. V.; et al. 13743
Safarjan, L. P. 8472
Safarjan, L. P.; et al. 8465
Sanini, Aristide 8473
Sekackiĭ, V. V. 8474
Soleĭman, M. A. 11193
Spesivcĭhh, V. (5387)
Stoljarov, A. V. 8475
Svešnikova, G. L. 13745
Thas, C. 3603
Tkač, G. P. 13746
Trofimova, G. V. 8476,8477
Varlamov, G. E. 8478
Vaškas, P. 8479
Collection:
Laptev, German Fedorovič 11191
Differential geometry 8465,8476,8477,13742
Geometry collection, No. 12 8478
Geometry collection, No. 15 (10256)
Geometry of homogeneous spaces 5994
Geometry of imbedded manifolds 8468
Proceedings of the Scientific Research Seminar on Geometry and Nomography, Vol. I 8475

53A25 *Differential line geometry*

Barabošin, N. M. 3604
Blank, Ja. P. 8480
Brazevič, M. V.; et al. 8481
Hoschek, Josef 8482
Iščenko, E. N. 1101
Ivanov, A. D. 5995
Ivanov, G. I.; et al. 11194
Ivlev, E. T.; et al. 8481
Lipatova, F. A. 8483
Magazinnikov, L. I.; et al. 11194
Mathar, R. 13747,13748
Novozilova, T. P. 11195
Orehora, N. S. 8484
Pani, G. 8485
Prusakova, A. I. 11196,11197
Roman'kova, T. P. 8486
Rybakov, V. N. 3605
Sačunov, Ju. V.; et al. 11198
Skrydlova, E. V. 8487
Stephanidis, N. K. 1102
Suharev, Ju. P.; et al. 11198
Tölke, Jürgen 13749
Geometry collection, No. 12 11194
Geometry collection, No. 14 8486
Geometry of imbedded manifolds 3605
Geometry and topology, No. 1 3604
Studies in contemporary problems of summability and approximation 1101

53A30 *Conformal differential geometry*

Chern, S. S.; et al. (13112)
Moser, J. K.; et al. (13112)
Pendl, A. 11199

53A35 *Noneuclidean differential geometry*

Abdurahmanova, H. K. 3606
Abel', E. 3607
Andreeva, N. P. 1103,1104
Cyrenova, V. B.; et al. 11200
Gur'eva, V. P. 11201
Houh, Chorng Shi 8488
Kačurina, N. I. 11202
Kiotina, G. V. 1105
Kolde, R. 1106
Lübbert, Christoph 5996
Mateev, Alipi 13750
Ščerbakov, R. N.; et al. 11200
Stepanenko, P. T.; et al. 3608
Vakarčuk, B. S.; et al. 3608
Vedernikov, V. I. 13751
Geometry collection, No. 15 11200,11201
Geometry of imbedded manifolds 1103,1104
Geometry and topology, No. 1 1105,11202
Mathematics and theoretical mechanics, VI 1106
Studies in contemporary problems of summability and approximation of functions, and their applications 3608

53A40 *Other special differential geometries*

Evseev, V. I. 8489
Frank, Hubert 5997,5998
Reveruk, N. V. 5999
Ržehina, N. F. 11203
Strubecker, Karl 8490
Szociński, Brunon 13752
Differential geometry, No. 1 11203
Geometry of imbedded manifolds 5999
Proceedings of the Seminar of the Department of Geometry, No. VII 8489

53A45 *Vector and tensor analysis*

Daumens, M.; et al. 11204a-b
Eisenreich, Günther *11205
Flügge, Wilhelm (*11931)
Janković, Z. 1107,8491
Kil'p, H. 1108
Marussi, A. 6000a-b
Minnaert, P.; et al. 11204a-b
Noriega, Ricardo 13753
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) 11176
Mathematical geodesy, Part II 6000a-b
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 1107
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 8491

53A50 *Spinor analysis*

Abbasov, N. T.; et al. 6001
Macyan, Shahen; et al. 13754
Kolokol'ceva, I. I.; et al. 6001
Plebański, Jerzy; et al. 13754
Staruszkiewicz, A. 11206
Zund, J. D. 11207

53A55 *Differential invariants (local theory), geometric objects*

Kawahara, Yasuo (3735)
Lovelock, David 6002
Siwek, Edward 1109
Stoljarov, A. V. 8492
Udalov, A. S. 8493
Vozylius, R. (1278)
Differential geometry, No. 1 8493
Topics in differential geometry (in memory of Evan Tom Davies) 6002

53Bxx Local differential geometry

53B05 *Affine connections*

Enghiş, P. 8494
George, Isac; et al. 8495
Jafarov, Š. A. 6003
Liviu, Nicolescu; et al. 8495
Differential geometry, No. 1 6003

53B10 *Projective connections*

Ivlev, E. T. 11208
Nagy, P. T. 6004

53B15 *Other connections*

Cruceanu, V. 8496
Okubo, Tanjiro 8497
Šinkunas, Ju. I. 11209
Collection: Bompiani, Enrico 8496

53B20 *Local Riemannian geometry*

Amur, Krishna; et al. 13755
Boju, V.; et al. 13758
Dediu, Mihai 8498
Desai, Pushpa; et al. 13755
Deszcz, Ryszard 11210,13756
Gębarowski, Andrzej 1110
Leko, Marko D. 8499
Miyazawa, Teturo 11211
Pokhariyal, G. P. 13757
Popescu, M.; et al. 13758
Slaghek, Luigi 13759
Smaranda, D. 3609
Timofeev, G. N. 13760
Geometry of Riemannian spaces 1110,11210

53B25 *Submanifolds*

Akivis, M. A.; et al. 1111,6005
Čakmazjan, A. V.; et al. 6005
do Carmo, M.; et al. 6006
Chen, Bang Yen; et al. 1112
Firsov, A. I. 1113
Gheorghiu, Gh. Th. 8500
Gol'dberg, V. V. 6007
Honig, E. 8501
Jastrebov, A. V. 3610
Liber, A. E. 11212
Novosad, P.; et al. 6006
Šelehov, A. M.; et al. 1111
Udrişte, Constantin 8502
Verstraelen, Leopold; et al. 1112
Zlatanov, G. 11213
Collection: Differential geometry 1111
Differential geometry, No. 1 11212
Geometry and topology, No. 1 3610

53B30 *Lorentz metrics, indefinite metrics*

Bark, Oul Yong 11214
Chimah, D. 6008
Defrise-Carter, L. 11221
Dornfeld, Engelbert 13761
Komin, R. 6009
Kuklewski, Julian; et al. 1114
Rosca, R. 11215
Singatullin, R. S. 11216
Šliž, Franciszek; et al. 1114
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 6009

53B35 *Hermitian and Kählerian structures* [*See also* 32Cxx.]

Gray, Alfred 6010
Iwasaki, Keiko; et al. 13762
Ogitsu, Noriko; et al. 13762
Rathore, M. P. S. 13763
Sakaguchi, Toshio 6011
Singh, S. S. 8503
Singh, U. B. 11217
Vanhecke, Lieven 6012
Watson, Bill 13764

53B40 *Finsler spaces and generalizations (areal metrics)*

Awasthi, G. D. 11218
Beem, John K. 8504
Bose, V. V.; et al. 13769
Dubey, G. C.; et al. 13766
Dubey, S. K. D.; et al. 3616
Haubitz, Imme 13765
Ispas, C. I. 1115
Kumar, A. 8505
Kumar, Awdhesh; et al. 1119,3611,13766
Laugwitz, Detlef 1116
Matsumoto, Makoto (4540)
Matsumoto, Makoto; et al. 1117,13767
Meher, F. M.; et al. 1118
Misra, S. B.; et al. 3612,13768
Moór, A. 11219
Pande, H. D.; et al. 1119,3612,8506,8507,13768
Pandey, J. P.; et al. 8507
Patel, L. M.; et al. 1118
Prasad, B. N.; et al. 13769
Ram Hit 3613
Rastogi, S. C.; et al. 6013
Shibata, Chōkō; et al. 1117,13767
Singh, B.; et al. 8506
Sinha, B. B. 1120
Singh, Om. P. 6014,11220,13770
Singh, Surendra Pratap 6015
Singh, U. P.; et al. 3614-3616,8508
Steiner, Siegfried 8509
Trivedi, H. K. N.; et al. 6013
Yadav, P. C.; et al. 3614,3615,8508
Collection: Bompiani, Enrico 1116
Commemoration volumes for Prof. Dr. Akitsugu Kawaguchi's seventieth birthday 1115

53Cxx Global differential geometry (For related bundle theory, see 55Fxx, 57Dxx.)

(Cole, Michael) *1121
Lichnerowicz, André *1121

53C05 *Connections*

Di Comite, Claudio 6016,8510
Epstein, D. B. A. 3617
Gancarzewicz, Jacek 6017
Ishikawa, Susumu 11222
Jackin, N. I. (8688)
Kagan, F. I. 6018
Kolář, Ivan (3740)
Nicolescu, Liviu 11223
Sagle, Arthur A. 11224
Stavre, P. 8511
Szybiak, Andrzej 3618

53C05 *Continued*

Tan, Sin Leng (11372)
Tong Van Duc 11225
Yagi, Katsumi 13771
Yuen, Christophe (3619),8512
Collection: Bompiani, Enrico 8510

53C10 *G-structures*

Albert, Claude (8656)
Gol'dberg, V. V. 11226
Higa, Tatsuo (11418)
Molino, P. (11419)
Neagu, Alexandru (8693)

53C15 *Almost complex, contact, symplectic, almost product structures, etc.*

Abe, Kinetsu 11227
Abe, Kinetsu; et al. 6019
Akivis, M. A. 13772
Baškienė, A. 6020
Caddeo, Renzo 8513
Chawla, Mohinder; et al. 1122
Dibag, I. 11228
Erbacher, Joseph; et al. 6019
Flato, Moshé; et al. (13994)
Fronsdal, Christian 11229
Gupta, V. C.; et al. 3622
Husain, S. I.; et al. 13776a-b
Komrakov, B. P. 1123,3620
Lichnerowicz, André; et al. (13994)
Ludden, Gerald D.; et al. 13773
Matsumoto, Kōzi 8514
Millman, Richard S. 1124
Mishra, R. S. 13774
Mishra, R. S.; et al. 1125
Okumura, Masafumi; et al. 13773
Ostianu, N. M. 13775
Pandey, H. B.; et al. 1125
Ram Behari; et al. 1122
Ram Hit 6021
Rea, C. (13115)
Roşca, Radu 11231
Sanini, Aristide 11232
Sharfuddin, A.; et al. 13776a-b
Shukla, Anjali 13777
Singh, K. D.; et al. 13779
Sinha, B. B. 3621
Sommese, Andrew John 13778
Sternheimer, Daniel; et al. (13994)
Timoŝenko, V. V. 8516
Upadhyay, M. D.; et al. 3622
Vamanu, Elena 8517
Vansnick, Jean-Claude 11233
Vey, Jacques (8765)
Vohra, R. K.; et al. 13779
Yamaguchi, Seiichi 3623
Yano, Kentaro; et al. 13773
C. N. Srinivasiengar dedication volume 6021
Collection:
Bhatnagar, P. L. 1122
Satō, Isuke 8514
Ślebodziński, Władysław 13774

53C20 *Riemannian manifolds, including pinching* [*See also* 58B20.]

Albu, Adrian C.; et al. (*6177)
Aubin, Thierry (1321)
Bérard-Bergery, Lionel 8518
Boothby, William M. (*13956)
Bourguignon, Jean-Pierre (6189)
Buoncristiano, S.et al. (*1234)
Chung, Lung Ock; et al. 8519
Ehrlich, Paul E. 6022
Gluck, Herman; et al.3624,3625
Goldberg, S. I.; et al. 13785
Gromoll, Detlef 11234
Grossman, N. 6023
Guillemin, Victor (14009)
Jordan, Steven L.; et al. 1126
Kauffman, Louis H.; et al. 1126
Kim, Hae Yŏng; et al. 8520
Klingenberg, Wilhelm (6195)
Ku, Mei Chin (3726)
Kuiper, Nicolaas H. 6024
Kulkarni, R. S. 6025
Kwon, Y. K.; et al. 13780a-b
Lyu, Ch'ung Ho; et al. 8520
Mann, L. N. (8685)
Martínez Naveira, A. 6026
Michel, Dominique (6196)
Nakai, Mitsuru; et al. 13781
Otsuki, Tominosuke (8717)
Papuc, Dan I.; et al. (*6177)
Reilly, Robert C. 3626a-b
Rigas, Alcibiades 13782
Roşca, Radu 6027,13783
Rourke, C. P.; et al. (*1234)
Sanderson, B. J.; et al. (*1234)
Sario, Leo; et al. 8519,13780a-b,13781,13784
Singer, David; et al. 3624,3625
Sugahara, Kunio 3627
Tashiro, Yoshihiro 6028
Tenenblat, Keti 8521
Thorpe, John A. 8522
Titus, Charles J. 3628
Tsagas, Gr.; et al. 13785
Tsagas, Grigorios 11235
Walter, Rolf 6029
Wang, Cecilia; et al. 13784
Yamaguchi, Seiichi 1127
Žukova, N. I. 13786
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11234
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 6024,8518

53C25 *Special Riemannian manifolds (Einstein, Sasakian, etc.)*

Andonie, O. C. 6030
Barbance, Christiane 11236
Gilkey, Peter B. 11238
Hasegawa, Izumi 8523
Liu, Mu Chou 8524
Matsumoto, Masatsune 8525
Michel, Dominique 6031
Pak, Jin Suk 13787
Tanno, Shūkichi 8526
Yano, Kentaro 1128
Collection: Bompiani, Enrico 1128
Commemoration volumes for Prof. Dr. Akitsugu Kawaguchi's seventieth birthday 8526
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 1) 8524

53C30 *Homogeneous manifolds* [*See also* 57F15.]

Azencott, Robert; et al. (13951)
Berard-Bergery, L. 6032
Chen, Bang Yen; et al. 3629
Chen, Su Shing 8527
Fljaĭser, A. 3630,6033,6034
Fljaĭser, A.; et al. 3631
Gal'perin, V. E. 1129
Lanteri, Antonio (6147)
Ledger, Arthur J.; et al. 1130
Lelong-Ferrand, Jacqueline 11237
Lue, Huei Shyong; et al. 3629
Malyŝev, F. M. (7876)
Ochiai, Takushiro; et al. (480)
Pettitt, R. Bruce; et al. 1130
Raŝevskiĭ, P. K. (10691)
Riĭves, K.; et al. 3631
Sasaki, Shigeo 13788
Shima, Hirohiko 1131
Takahashi, Tsunero; et al. (480)
Wilson, Edward N.; et al. (13951)

53C35 *Symmetric spaces* [*See also* 57F15.]

Astrahancev, V. V. 3632
Donnelly, Harold 1132
Ledger, Arthur J.; et al. 8528
Pettitt, R. Bruce; et al. 8528

53C40 *Submanifolds, isometric imbeddings* [*See also* 57D40.]

Alexander, S.; et al. 6035
Bleecker, David D.; et al. 13789
Borisenko, A. A. 1133
Bujalo, S. V. 13790
Chen, Bang Yen; et al. 13791
Fomenko, V. T.; et al. 1139,8531
Gadžimuradov, M. A.; et al. 11254
Glässner, Ekkehart 11239
Grifone, Joseph; et al. 8529
Henke, Wolfgang 13792
Hsiung, Chuan Chih; et al. 13793
Itō, Takehiro; et al. 6036
Katsurada, Yoshie 1134
Kon, Masahiro 13794
Kon, Masahiro; et al. 11245,*13799
Kühnel, Wolfgang 13795
Little, John A. 6037
Lo, Timothy P.; et al. 13793
Maltz, R.; et al. 6035
Morvan, Jean-Marie; et al. 8529
Nagai, Tamao 1135
Nagano, Tadashi; et al. 6038
Nakagawa, Hisao; et al. 6036
Nomizu, Katsumi 11240
Okumura, Masafumi 1136,6039
Park, Hong Suh 11241
Rathore, M. P. S. 11242
Reckziegel, Helmut 13796
Reilly, Robert C. 13797
Schoen, R.; et al. 11243
Simon, Leon 6040
Simon, L.; et al. 11243
Simon, Udo 11244
Smyth, Brian; et al. 6038
Spivak, Michael 8530
Tachibana, Shun-ichi 6041
Takagi, Ryoichi 13798
Takagi, Ryoichi; et al. 6036
Thorbergsson, Gudlaugur 1137
Verstraelen, Leopold; et al. 13791
Willmore, T. J. 1138
Yano, Kentaro; et al. 11245,13799
Yau, S. R.; et al. 11243
Collection:
Bompiani, Enrico 1134
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 1) 6038,8530,11240
Differentialgeometrie im Großen (Ber. Tagung, Math. Forschungsinst., Oberwolfach, 1969) 11244
Topics in differential geometry (in memory of Evan Tom Davies) 1138

53C45 *Global surface theory (convex surfaces à la A. D. Aleksandrov)*

Aleksandrov, A. D.; et al. (13714)
Bakel'man, I. Ja.; et al. 11246
Bandle, Catherine (13726)
Cheng, Shiu Yuen; et al. 11247
Fomenko, V. T.; et al. 1139,8531
Gadzimuradov, M. A.; et al. 11254
Gorziĭ, T. A. 11248
Hineva, Stefka T. 13800
Ivanova-Karatopraklieva, Ivanka 3633,13801
Kann, Edgar 8532
Kantor, B. E.; et al. 11246
Kazak, V. V. 8533
Klimentov, S. B. 11249
Klimentov, S. B.; et al. 8531
Kopylov, A. P.; et al. (13714)
Koutroufiotis, Dimitri 13802
Kuz'minyh, A. V. 11250
Kuz'minyh, A. V.; et al. (13714)
Kuznecova, N. G. 13803
Makai, E., Jr. 6042
Markov, P. E.; et al. 1139
Matsuyama, Yoshio 3634
Milka, A. D. 8534,11251,11252
Pogorelov, A. V. 8535
Rosca, Radu; et al. 6043
Rozendorn, E. R. 11253
Sabitov, I. H. 8536,13804
Sabitov, I. H.; et al. 13805
Šaĭdenko, A. V.; et al. (13714)
Šefel, S. Z.; et al. 13805
Tjurikov, E. V. 13806
Vanhecke, Lieven; et al. 6043
Verner, A. L.; et al. 11254
Vorob'eva, L. I. 13807
Yau, Shing Tung; et al. 11247
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8535
Geometry and topology, No. 1 11246,11254,13803

53C50 *Lorentz manifolds, manifolds with indefinite metrics*

Artykbaev, A. 1140
Demiański, M. 8537
Dhooghe, P. F. J. 13808
Popovici, Iulian 13810,13811
Popovici, Iulian; et al. 13809
Reynolds, R. (9584)
Turtoi, Adriana; et al. 13809
Methods of local and global differential geometry in general relativity (Proc. Regional Conf. on Relativity, Univ. Pittsburgh, Pittsburgh, Pa., 1970) 8537,(9584)

53C55 *Hermitian and Kähleriam structures* [*See also* 32Cxx.]

Chen, Bang Yen; et al. 3635,(5261)
Donnelly, Harold 3636
Fernández, Marisa; et al. 11255
Hervella, Luis; et al. 11255
Huber, Alfred 8538
Ivatani, Teruo 6044,6045
Kiriĉenko, V. F. 13812
Kon, Masahiro 1141
Kon, Masahiro; et al. 13817,13818
Kubo, Yoshiko 13813
Ludden, Gerald D.; et al. 6046
Lue, Huei Shyong; et al. 3635
Maeda, Yoshiaki 8539
Nakagawa, Hisao; et al. (5513)
Ogiue, Koichi; et al. (5261)
Okumura, Masafumi; et al. 6046
Petridis, N. C. 13814
Sakamoto, Kunio 6047
Stanilov, Gr. 13815
Takagi, Ryoichi; et al. (5513)
Vaisman, Izu 6048
Vanhecke, Lieven 13816
Watanabe, Yoshiyuki 6049
Watson, Bill 11256
Weinstein, Alan 6050
Yano, Kentaro; et al. 6046,13817,13818
Yau, Shing Tung (5502)

53C60 *Finsler spaces and generalizations (areal metrics)* [*See also* 58B20.]

Al-Borney, M. S.; et al. 8540
Brickell, F.; et al. 8540
Clark, R. S.; et al. 8540
Ichijyō, Yoshihiro 13819
Riedler, K. 1142
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 1142
Topics in differential geometry (in memory of Evan Tom Davies) 8540

53C65 *Integral geometry, differential forms, currents, etc.*

Ambarcumjan, R. V. (14035)
Anikonov, Ju. E. 13820
Filipescu, Dumitru (1337)
Geciauskas, E. 6051
Hoschek, Josef (8482)
Stoka, Marius I. 3637

53C70 *Direct methods (G-spaces of Busemann, etc.)*

Kim, V. S. 13821
Vaĭnshteĭn, A. G. 6052
Geometry and topology, No. 1 13821

54—XX GENERAL TOPOLOGY (For the topology of manifolds of all dimensions, see 57Axx.)

54-01 *Elementary exposition (collegiate level)*

Demaria, Davide Carlo *6053a-b,*6054
Schubert, Horst *11257
Sims, Benjamin T. *3638

54-06 *Collections of papers; proceedings of conferences*

(Kent, D. C.) *6055
(Wagner, E. F.) *6055
Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) *6055
Convergence spaces *6055
Proceedings of the Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) *6055
Special Session on Convergence Structures (Amer. Math. Soc. Meeting, Univ. Nevada, Reno, Nev., 1976) *6055

54Axx Generalities

54A05 *Topological spaces and generalizations (closure spaces, etc.)*

Kasahara, Shouro 1143
Ludescher, Helmut; et al. 11258
Roventa, Eugen; et al. 11258
Wong, C. K. 1144
Wyler, Oswald 11259

54A10 *Change of topology, comparison of topologies*

Adnađević, Dušan 8541
Braude, Eric John 13822
Joseph, James E. 1145
Mancuso, Vincent J. (13877)
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 8541

54A15 *Syntopogeneous structures*

Amihăesei, C. 13823

54A20 *Convergence (general theory) and limits*

Bălan, T. 1146,1147,3639
Barbieri, Francesco; et al. 11260
Binz, E. (1153)
Borgan, D. 13824
Cochran, Allan C. 13825
Facchinetti, Gisella; et al. 11260
Fitzpatrick, M.; et al. 11261
Haddad, Labib 8542
Hamburg, Peter 6056
Kocela, Edward; et al. 8543
Koševnikova, I. G. (8577)
Koševnikova, I. G.; et al. (8578)
Kucenko, È. N.; et al. (8578)
Lin, Kuang Nan 1148
McCartan, S. D.; et al. 11261
Ney, Andrei 1150
Nordman, Hasse 1149
Prakash, Anand; et al. 11262
Reed, Ellen E. 13826
Širokov, V. I. 6057
Srivastava, Pramila 11262
Steinlage, R. C. 8544
Świątkowski, Tadeusz; et al. 8543
Waterhouse, William C. (3648)
Bibliography: Convergence spaces 13825
Collection: Soochow University 1148
Mathematical logic (*7249)
Notas de Lógica Mathemática, Nos. 29-30 (*7249)
Notes in mathematical logic, Nos. 29-30 (*7249)
Proceedings of the Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) 13825,13826
Symposia Mathematica, Vol. XVII (1153)

54A25 *Cardinality properties (discrete subsets, weight, etc.)*

Amirdžanov, G. P. 8545,8546
Bel'nov, V. K. (11288)
Burke, D. K.; et al. 6058
Charlesworth, A. 6059
Comfort, W. W.; et al. (13867)
Devi, K. Malliha; et al. (8566)
Efimov, B. A. 6060
Fedorčuk, V. V. 13827
Hager, Anthony W.; et al. (13867)
Hajnal, A. 6061
Hajnal, A.; et al. 6062,11263
Hodel, R. E.; et al. 6058,(11274)
Isler, Romano; et al. 3640
Jakovlev, N. N. (3663)
Kucia, Anna; et al. (1167)
Juhász, I.; et al. 6062,11263
Krivoručko, A. I. 6063,8547
Malyhin, V. I. (8573)
Meyer, Paul R.; et al. (8566)
Nemec, A. G. (8574)
Nogura, Tsugunori (3642)
Okuyama, A.; et al. (11274)
Peregudov, S. A.; et al. (11280)
Popov, V. V. (3644)
Puzio-Pol, E. (11299)
Rajagopalan, M.; et al. (8566)
Rätz, J. 3641
Reed, G. M. (13863)
Šapirovskiĭ, B. È.; et al. (11280)
Simchoni, Dan (8568)
Szymański, Andrzej; et al. (1167)
Tall, Franklin D. 11264
Tironi, Gino; et al. 3640
Yasui, Yoshikazu (11291)
Collection: Carathéodory, Constantin; Plemelj, Josip; Pompeiu, Dimitrie and Ţiţeica, Gheorghe 3641
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) 6062
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 6061

54A99 *None of the above, but in this section*

Herrlich, Horst 8548
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 8548

54Bxx Basic constructions

54B10 *Product spaces*

Broverman, S. (1152,8572)
Malyhin, V. I. (13839)
Nogura, Tsugunori 3642
Przymusiński, Teodor (6079,13845)
Robinson, S. M. 13828
Rudin, Mary Ellen 13829
Tanaka, Yoshio (3665)
Uemura, Yasuhisa (8569)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 13829

54B15 *Quotient spaces, decompositions*

Bednarek, Alexander R.; et al. 13830
Norris, Eugene M.; et al. 13830
Smith, Michel 3643
Woodruff, Edythe P. (6145)
Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) (6145)

54B20 *Hyperspaces*

Krasinkiewicz, J. (6102)
Kroonenberg, Nelly (1230)
Nadler, S., Jr.; et al. 8549
Nadler, Sam B., Jr. (13873)
Popov, V. V. 3644
Prem Prakash; et al. 13831
Quinn, J.; et al. 8549
Rogers, James T., Jr. 8550
Sertel, Murat R.; et al. 13831
Stavrakas, N. M.; et al. 8549

54B25 *Sums, inverse limits*

Savinov, N. V. 11265
Schoenfeld, Alan H. 8551

54B30 *Categorical methods*

Bentley, H. L.; et al. (13840)
Franklin, S. P.; et al. (13844)
Herrlich, H.; et al. (13840)
Herrlich, Horst (8548),13832
Lutzer, D. J.; et al. (13844)
Nakagawa, Ryosuke 8552
Nel, L. D. 13833
Pták, Pavel (6080)
Robertson, W. A.; et al. (13840)
Thomas, B. V. S.; et al. (13844)
Vilimovský, Jiří (1173)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (8548)
Seminar Uniform Spaces (Prague, 1973-1974) (1173)
Topology (Proc. Ninth Annual Spring Topology Conf., Memphis State Univ., Memphis, Tenn., 1975) 13833

54B99 *None of the above, but in this section*

Czyż, J. 1151

54Cxx Maps and general types of spaces defined by maps

54C05 *Continuous maps*

Bednarek, Alexander R.; et al. (13830)
Bridges, Douglas S. (7221)
Herrington, Larry L.; et al. 8553
Hušek, Miroslav 3645
Kuperberg, W.; et al. (8587)
Lelek, A.; et al. (8587)
Long, Paul E.; et al. 8553
Norris, Eugene M.; et al. (13830)
Penner, Sidney; et al. (5080)
Rosenholtz, Ira 6064
Schoenfeld, Alan H. (8551)
Schroeder, Karl J.; et al. (5080)
Symposia Mathematica, Vol. XVII 3645

54C10 *Special maps: open, closed, perfect, almost open, light, etc.*

Byczkowski, T.; et al. 11266
Chaber, J. 3646
Chew, Kim Peu; et al. 6065
Fitzpatrick, M.; et al. (11261)
Friedler, Louis 13834
Hammers, William D. 11267
Herrington, Larry L. 3647
Lee, Kyung Bai (3664)
Lelek, A.; et al. 6066
McCartan, S. D.; et al. (11261)
Michael, E.; et al. 6067
Nagami, Keiô (13871)
Nitta, Shin-ichi (13847)
Nogura, Tsugunori (6085)
Noiri, T. 13835
Olson, R. C.; et al. 6067
Pol, R.; et al. 11266

54C10 *Continued*

Read, D. R. 13836
Savinov, N. V. (11265)
Siwiec, F.; et al. 6067
Siwiec, Frank (1174)
Tan, Kok Keong; et al. 6065
Tani, Tsugio 13837
Tymchatyn, E. D.; et al. 6066
Walsh, John J. 13838
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) (13871)

54C15 *Retraction*

Kellum, Kenneth R. 8554

54C20 *Extension*

Bel'nov, V. K. (11288)
Cossi, Ernesto Bruno 8555

54C25 *Imbedding*

Blair, Robert L. 8556
Gevirtz, Julian 13973
Collection: Soriano, Luis I. (1903-1973) 13973

54C30 *Real-valued functions* [*See also* 26-XX.]

Broverman, S. 1152
Fuglede, Bent 8557
Hogan, D. T. (13861)
Malyhin, V. I. 13839
Waterhouse, William C. 3648
Wine, J. D. 6068

54C35 *Function spaces* [*See also* 58D15.]

Bednarek, A. R.; et al. (12942)
Bentley, H. L.; et al. 13840
Binz, E. 1153
Ditor, Seymour; et al. 6071
Dobrescu, Eugen 11268
Fox, Geoffrey; et al. (6075)
Haydon, Richard 6069,6070
Haydon, Richard; et al. 6071
Herrlich, H.; et al. 13840
Krivorucko, A. I. (6063,8547)
Lord, Harriet (5860)
Magill, K. D., Jr.; et al. (12942)
Morales, Pedro; et al. (6075)
Pasenkov, V. V. 8558
Robertson, W. A.; et al. 13840
Symposia Mathematica, Vol. XVII 1153

54C40 *C(X); algebraic techniques (ideals, etc.)* [*See also* 46J10.]

Batikjan, B. T.; et al. (933)
Császár, Ákos 6072
Feldman, W. A.; et al. 1154
Gorin, E. A.; et al. (933)
Hager, Anthony W. 13841
Hery, William (11043)
Kong, T. J.; et al. 1154
Symposia Mathematica, Vol. XVII 13841

54C45 *C- and C*-imbedding*

Blair, Robert L. 3649
Woods, R. Grant (13855)

54C55 *Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties)*

Ball, B. J. 8559
(Borsuk, K.) 1156
Borsuk, Karol 1155,(*6132)
Ditor, Seymour; et al. (6071)
Dydak, J. 1158
Dydak, J.; et al. 1157
Haydon, Richard (6069)
Haydon, Richard; et al. (6071)
Kalinin, V. A. (8604)
Krasinkiewicz, J. 8560
Lisica, Ju. T. 8561
Nowak, S.; et al. 1157
Sher, R. B. (13875)
Strok, M. 1156
Strok, M.; et al. 1157

54C56 *Borsuk's theory of shapes*

Edwards, David A.; et al. (1216,3693)
Geoghegan, Ross; et al. (1216,1228,3693),6073)
Kodama, Yukihiro 3650
Lacher, R. C.; et al. 6073
Mardešić, Sibe 8562
Sanders, Thomas J. 13842
Singh, S. 11269
Strok, M. 1159
Summerhill, R. R.; et al. (1228)
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) 3650

54C60 *Set-valued maps*

Bănzaru, T. 6074,(13457)
Edgar, G. A. (7734)
Fox, Geoffrey; et al. 6075
Gorlenko, S. V. 1160
Kaul, Saroop K. 8563
Kuratowski, K. 1161
Morales, Pedro; et al. 6075
Popa, Valeriu 1162,(8583)
Saint-Pierre, Jean (10542)
General topology and its relations to modern analysis and algebra, III 1161

54C65 *Selections*

Ceder, Jack 6076
Dauer, Jerald P.; et al. (1048)
Kuratowski, K. 3651
Leese, S. J. (5418a-b)
Lehn, Jürgen (5419)
Nedev, Stojan I. 6077
Parthasarathy, T. (*5420)
Van Vleck, F. S.; et al. (1048)
Collection: Sansone, Giovanni 3651

54C99 *None of the above, but in this section*

Anki Reddy, K. C.; et al. 13843
Funakosi, S.; et al. 13843
Hamlett, T. R. 1163
Okuyama, Akihiro 1164
Sharma, P. L.; et al. 13843
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) 1164

54Dxx Fairly general properties

54D05 *Connected and locally connected spaces (general aspects)*

Das, Phullendu 11270
Eberhart, C.; et al. 11271
Fugate, J. B.; et al. 11271
Mohler, L.; et al. 11271
Tanre, Daniel 11272
Conférences du Colloque sur l'Algèbre des Catégories (Amiens, 1973), II 11272

54D10 *Separation axioms, $T_0 - T_3$*

Lenzi, Domenico 6078
Robinson, S. M. (13828)

54D15 *Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)*

Alster, K.; et al. 3652
Anton, Howard 13857
Blasco Olcina, José Luis; et al. 11273
Boone, James R. 3653
Franklin, S. P.; et al. 13844
Jones, F. Burton 1165
López Pellicer, Manuel; et al. 11273
Lutzer, D. J.; et al. 13844
Nogura, Tsugunori (3642)
Przymusinski, T.; et al. 3652
Przymusiński, Teodor 6079,13845
Pták, Pavel 6080
Rudin, Mary Ellen (13829)
Shapiro, H. L.; et al. 8564
Smith, F. A.; et al. 8564
Talamo, Rodolfo 8565
Thomas, B. V. S.; et al. 13844
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (13829)
Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) 1165

54D20 *Covering properties: Lindelöf, (m, n)-compact, paracompact, pointwise paracompact, etc.*

Arya, Shashi Prabha; et al. 3654,6086
Boone, James R. 6081
Devi, K. Malliha; et al. 8566
Espelie, M. Solveig; et al. 6082
Hajnal, A.; et al. (6062)
Hodel, R. E.; et al. 11274
Ishii, Tadashi 6083
Jakovlev, N. N. (3662)
Johnsonbaugh, Richard 13846
Joseph, James E.; et al. 6082
Juhász, I.; et al. (6062)
Kerr, Carolyn India 6084
Meyer, Paul R.; et al. 8566
Nitta, Shin-ichi 13847
Nogura, Tsugunori 6085
Noiri, Takashi 8567
Okuyama, A.; et al. 11274
Rajagopalan, M.; et al. 8566
Reed, G. M. (13863)
Simchoni, Dan 8568
Singal, Asha Rani; et al. 3654,6086
Stephenson, R. M., Jr.; et al. 13848
Tall, Franklin D. (11264)
Thompson, Travis 13849
Uemura, Yasuhisa 8569
Vaughan, J. E.; et al. 13848
Williams, Scott W. 6087
Wine, J. D. (6068)
Yajima, Y. 13850
Yajima, Yukinobu 8570
Infinite and finite sets (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday) (6062)
Proceedings of the University of Houston Point Set Topology Conference (Houston, Tex., 1971) 6087
TOPO 72—general topology and its applications 6084

54D25 *Spanier-Whitehead duality*

Błaszczyk, A. 13851
Gryzlov, A. A. 11275
Herrington, Larry L. 1166,(3647),3655
Joseph, James E. (1145),13852,13853
Stephenson, R. M., Jr. 11276

54D30 *Compact spaces and generalizations*

Aarts, J. M.; et al. 6088
Belugin, V. I. 11277
Burke, D. K.; et al. (6058)
Devi, K. Malliha; et al. (8566)
Fedorčuk, V. V. (13827)
Fletcher, Peter; et al. 11278
Franklin, S. P.; et al. 3656
Hajnal, A.; et al. (11263)
Hodel, R. E.; et al. (6058)
Joseph, James E. 8571
Juhász, I.; et al. (11263)
Lambrinos, P. Th. 11279
Lindgren, William F.; et al. 11278
Lozanovskiĭ, G. Ja. (5422)
Lutzer, D. J.; et al. 6088
Mathur, Asha; et al. 11281
Meyer, Paul R.; et al. (8566)
Peregudov, S. A.; et al. 11280
Rajagopalan, M.; et al. (8566)
Šapirovskiĭ, B. È.; et al. 11280
Singal, M. K.; et al. 11281
Walker, R. C.; et al. 3656

54D35 *Compactifications, etc.*

Broverman, S. (1152),8572
Császár, Ákos (6072)
Hardy, J. P. L.; et al. (12952)
Kucia, Anna; et al. 1167
Magill, K. D., Jr. (10458)
Malyhin, V. I. 8573
Mandelker, Mark 1168
Morris, Sidney A.; et al. (12952)
Negrepontis, S. 3657
Nemec, A. G. 8574
Ovsepjan, S. G. 1169,6089,8575
Pelletier, Donald H. (7268)
Prikry, Karel (4989a-b)
Reed, Ellen E. 13854
le Riche, L. H. (99)
Salbany, Sergio (*13869)
Šapiro, L. B. 8576
Sultan, A. 6090

54D35 *Continued*

Szymański, Andrzej; et al. 1167
Thompson, H. B.; et al. (12952)
Woods, R. Grant 13855
Symposia Mathematica, Vol. XVII 1168,3657

54D40 *Remainders*

Amirdžanov, G. P. (8545)

54D45 *Local compactness, σ-compactness*

Ovsepjan, S. G. 6091

54D50 *k-spaces*

Michael, E.; et al. (6067)
Olson, R. C.; et al. (6067)
Siwiec, F.; et al. (6067)
Siwiec, Frank (1185)
Tanaka, Yoshio (3665)
Tani, Tsugio (13837)
Velicko, N. V. 11282

54D55 *Sequential spaces*

Gruenhage, Gary 1170
Harley, Peter W., III; et al. 6092
Ono, Tokuro 13856
Stephenson, R. M., Jr.; et al. 6092

54D60 *Realcompactness and realcompactification*

Amirdžanov, G. P. (8546)
Broverman, Samuel 1171
Császár, Ákos (6072)
Curzer, Howard; et al. 3658
Hager, Anthony W.; et al. 3658
Puzio-Pol, E. (11299)

54D99 *None of the above, but in this section*

Guía Marín, Josep V. 6093
Kwak, Jin Ho (3694)

54Exx Spaces with richer structures

54E05 *Proximity structures and generalizations*

Koševnikova, I. G. 8577
Koševnikova, I. G.; et al. 8578
Kucenko, È. N.; et al. 8578
Reed, Ellen E. (13826,13854)
Proceedings of the Conference on Convergence Spaces (Univ. Nevada, Reno, Nev., 1976) (13827)

54E10 *p-maps*

Friedler, Louis 6094

54E15 *Uniform structures and generalizations*

Bîrsan, T. 13858
Brown, Lawrence M. 13859
Carlson, John W. 11283,13860
Carter, Karen S.; et al. 11284
Cordier, Jean-Marc 8579
Cossi, Ernesto Bruno (8555)
Császár, Ákos (6072)
Deaibes, Ali 3659
Frolík, Z. 11285a-b
Hager, Anthony W. (13841)
Hager, Anthony W.; et al. 6095
Herrlich, Horst (8548)
Hicks, T. L.; et al. 11284
Hogan, D. T. 13861
Rice, Michael D. 1172,8580
Rice, Michael D.; et al. 6095
Vilímovsky, Jiří 1173
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (8548)
Seminar Uniform Spaces (Prague, 1973-1974) 1173
Symposia Mathematica, Vol. XVII (13841)

54E20 *Stratifiable spaces, cosmic spaces, etc.*

Atkins, J. M.; et al. (13864)
Siwiec, Frank 1174
Slaughter, F. G., Jr.; et al. (13864)
Proceedings of the University of Oklahoma Topology Conference (1972) (13864)

54E25 *Semimetric spaces*

Harley, Peter W., III; et al. (6092)
Klimowicz, A. A. 2810
Lee, Kyung Bai 11286
Stephenson, R. M., Jr.; et al. (6092)

54E30 *Moore spaces*

Aarts, J. M.; et al. (6088)
Alster, K.; et al. (3652)
Boone, James R. (3653)
Eidswick, J. A. 11287
Lutzer, D. J.; et al. (6088)
Nagami, Keiô (13871)
Przymusinski, T.; et al. (3652)
Reed, G. M. 13863
Reed, G. M.; et al. (13868)
Tall, F. D. (4987)
Zenor, P. L.; et al. (13868)
General topology and its relations to modern analysis and algebra, III (4987)
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) (13871)

54E35 *Metric spaces, metrizability*

Ahuja, G. C.; et al. 1175
Atkins, J. M.; et al. 13864
Aull, C. E. 3660
Bel'nov, V. K. 11288
Boone, James R. 13865
Broughan, Kevin A. *13866
Charlesworth, A. (6059)
Comfort, W. W.; et al. 13867
Enflo, Per 3661
Faber, M. J. (*6097)
Faulkner, G. D.; et al. 1176
Fletcher, Peter; et al. (11278)
Hager, Anthony W.; et al. 13867
Harley, P. W., III; et al. 1176
Jakovlev, N. N. 3662,3663
Johnsonbaugh, Richard 11289
Lee, Kyung Bai 3664
Lindgren, William F.; et al. (11278)
Martin, Harold W. 1177,11290
Narang, T. D.; et al. 1175
Pearson, B. J. (6098)
Reed, G. M.; et al. 13868
Sanders, David (2527)
(Schattschneider, D.) 11289
Schattschneider, Doris J. 8581
Slaughter, F. G., Jr.; et al. 13864
Tanaka, Yoshio 3665
Trehan, Swaran; et al. 1175
Yasui, Yoshikazu 11291
Zenor, P. L.; et al. 13868
Proceedings of the University of Oklahoma Topology Conference (1972) 13864
TOPO 72—general topology and its applications 3660

54E40 *Isometries, contractions, expansions*

Janos, Ludvik (13885,13886)
Opočcev, V. I. (8605)

54E45 *Compact(locally compact) metric spaces*

Rosenholtz, Ira (6064)

54E50 *Complete metric spaces*

Grinblat, L. Š. 11292

54E55 *Bitopologies*

Dimitrijević, Radoslav 8582
Popa, Valeriu 8583
Salbany, Sergio *13869
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) 8582

54E99 *None of the above, but in this section*

Anton, Howard; et al. 8584
Beauchemin, Pierre; et al. (7265)
Bentley, H. L.; et al. (13840)
Bocşan, Gh. 1178
Cicchese, Marcello 13870
Constantin, Gheorghe; et al. 3666
Hashimoto, Hiroshi 1179
Herrlich, H.; et al. (13840)
Istrăţescu, I. 11293
Istrăţescu, I.; et al. (13884)
Jaiswal, Anuradha; et al. 6096
Nagami, Keiô 13871
Pervin, William J.; et al. 8584
Radu, Viorel; et al. 3666
Reyes, Gonzalo E.; et al. (7265)
Robertson, W. A.; et al. (13840)
Roventa, E.; et al. (13884)
Saleski, Alan 8585
Singh, Bijendra; et al. 6096
Tani, Tsugio (13837)
Tardiff, Robert M. 11294
Wicke, H. H.; et al. 13872
Worrell, J. M., Jr.; et al. 13872
Yasui, Yoshikazu 1180
Unsolved problems on topological spaces (Conf., Res. Inst. Math. Sci., Kyoto Univ., Kyoto, 1973) 13871

54Fxx Special properties

54F05 *Ordered topological spaces, partially ordered spaces [See also 06A45.]*

(Bechtolsheim, Lulu) *3667
Billard, Pierre (3377)
Borgan, D. (13824)
Capek, Peter (5072)
Dimitrijević, Radoslav (8582)
Eršov, Ju. L. (7236)
Faber, M. J. *6097
Holland, W. Charles (5076)
Nachbin, Leopoldo *3667
Pearson, B. J. 6098
Rao, K. P. S. Bhaskara; et al. 6099
Rao, M. Bhaskara 6099
Simchoni, Dan (8568)
Papers presented at the Balkan Mathematical Congress, Fifth (Belgrade, 1974) (8582)

54F15 *Continua and generalizations*

Bales, John W. 1181
Lelek, A.; et al. (6066)
Nadler, Sam B., Jr. 13873
Rogers, James T., Jr. (8550)
Rosłaniec, H. 11295
Smith, Michel (3643)
Tymchatyn, E. D.; et al. (6066)

54F20 *Special types of continua*

Charatonik, J. J. 1182,13874
Eberhart, C.; et al. (11271)
Emeryk, A. 6100
Fugate, J. B.; et al. (11271)
Gordh, G. R., Jr.; et al. 11296
Hagopian, Charles L. 6101,8586
Krasinkiewicz, J. 6102
Kuperberg, W.; et al. 8587
Lelek, A.; et al. 8587
Loveland, L. D.; et al. 6103
Lum, Lewis; et al. 11296
Mańka, Roman 1183
Mohler, L.; et al. (11271)
Nadler, S., Jr.; et al. (8549)
Quinn, J.; et al. (8549)
Smith, Michel 8588
Stavrakas, N. M.; et al. (8549)
Tymchatyn, E. D. 11297
Ward, L. E., Jr. 1184
Wayment, S. G.; et al. 6103
Collection: Ślebodziński, Władysław 1182

54F30 *Cyclic elements*

Lehman, B. 8589

54F40 *Compact (locally compact) absolute neighborhood retracts*

Łysko, J. M. (1231)
Sher, R. B. 13875

54F45 *Dimension theory* [*See also* 55C10.]

Broughan, Kevin A. (*13866)
Charalambous, M. G. 3668,8590,13876
Henderson, David W. 8591
Ivanov, O. V. 11298
Joiner, Charles (448)
Kodama, Yukihiro (6133)
Lisica, Ju. T. (8561)
Mancuso, Vincent J. 13877
Pasynkov, B. A.; et al. 6104
Puzio-Pol, E. 11299,13878
Savinov, N. V. (11265)
Zambahidze, L. G.; et al. 6104
Symposium on Infinite-Dimensional Topology (1967) 8591

54F50 *Spaces of dimension ≤ 1; curves, dendrites* [*See also* 26A03.]

Kuperberg, W.; et al. (8587)
Lelek, A.; et al. (8587)
Mańka, Roman (1183)
Rochowski, M. 6105
Wright, David G. (1229)

54F55 *Unicoherence, multicoherence*

Dickman, R. F., Jr. 8592

54F65 *Topological characterizations of particular spaces*

Siwiec, Frank 1185
Swart, Johan 13879

54Gxx Peculiar spaces

54G05 *Extremally disconnected spaces, F-spaces, etc.*

Błaszczyk, A. (13851)
Efimov, B. A. (6060)
Thompson, Travis (13849)

54G10 *P-spaces*

Yasui, Yoshikazu (1180)

54G15 *Pathological spaces*

Blasco Olcina, José Luis; et al. (11273)
López Pellicer, Manuel; et al. (11273)
Pol, R. 1186

54G20 *Counterexamples*

Rudin, Mary Ellen 3669
Symposia Mathematica, Vol. XVI 3669

54Hxx Connections with other structures, applications

(Swaminathan, Srinivasa) (*11112)
Fixed point theory and its applications (Proc. Sem., Dalhousie Univ., Halifax, N. S., 1975) (*11112)

54H05 *Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets)* [*See also* 04A15, 26A21, 28A05.]

Čoban, M. M. (7266)
Dellacherie, C.; et al. (14084)
Kaniewski, J. (2468)
Kechris, A. S.; et al. 8593
Martin, D. A.; et al. 8593
Meyer, P. A.; et al. (14084)
Morgan, John C., II 13880
Pol, R. 8594
Saint-Pierre, Jean 11300
Saint-Raymond, J. (13515)
Willmott, Richard C. (12527)
Séminaire de Probabilités, IX (14084)

54H15 *Transformation groups and semigroups* [*See also* 28A65, 34C35, 58Fxx.]

Jenkins, J. W. (2866)
Roberts, James W. 3670
Seda, Anthony Karel 6106
Sharma, P. L. 13881
Topa, S. 11301
de Vries, J. *3671
Yang, J. S. 6107

54H20 *Topological dynamics* [*See also* 20Mxx,22-XX, 57Exx.]

Abelson, Harold; et al. (3765)
Aranson, S. H.; et al. (3757)
Bhatia, Nam P. 8595
Bondi, P.; et al. 8596
Bronšteĭn, I. U. 1187
Grines, V. Z.; et al. (3757)
Ho, Chung Wu 8682
Johnson, Russell A. (10552)
Kim, Ki Woong (11370)
Lam, Ping Fun 8597
Marcus, Brian (1302,10564)
McMahon, D.; et al. 1188
Misiurewicz, Michał 3672
Moauro, V.; et al. 8596
Nathanson, Melvyn B. 6108
Oka, Masatoshi 13882
Pelczar, Andrzej 3673
Perrizo, William 13883
Ruelle, David (5441)
Sacker, Robert J. (8729)
Saito, Tosiya 8598
Salzberg, Pablo M. 8599
Seah, Sek Wui (5551)
Seibert, P. (7976)
Sidorov, E. A. 1189
Stanton, Charles; et al. (3765)
de Vries, J. (*3671)
Walters, Peter (2923)
Wu, T. S.; et al. 1188
Conference on Ergodic Theory and Topological Dynamics (Kibbutz Lavi, 1974) (1302)
Ordinary differential equations: 1971 NRL-MRC Conference (7976),8595,(8729)
Proceedings of the Symposium Mathematik, Second (Univ. Malaya/Univ. Kebangsaan Malaysia, Kuala Lumpur, 1974) (5551)

54H25 *Fixed-point and coincidence theorems* [*See also* 47H10,55C20.]

Achari, J. 6109
Achari, J.; et al. 1197
Assad, Nadim A. 8600
Bărbulescu, I. 3674
Charatonik, J. J. (1182)
Chew, Kim Peu; et al. (6065)
Cicchese, Marcello (13870)
Czerwik, Stefan 11302
Daneš, Josef 6110
Delbosco, Domenico 3675
Diviccaro, Maria Luigia 3676
Drewniak, Józef; et al. 6111
Florea, Gh.; et al. 3683
Flores, Rubén; et al. 6112
Fournier, Gilles; et al. (8614)
Garcia, C. B. 6113
Górniewicz, Lech; et al. (8614)
Gupta, K. P. 8601
Hagopian, Charles L. (6101)
Hansel, Georges; et al. 8602
Iliadis, S. D. (6125)
Imaz, Carlos; et al. 6112
Iséki, K.; et al. 11303
Iséki, Kiyoshi 1190-1194,3679, 6114-6116,11304,11305
Istrăţescu, I.; et al. 13884
Istrăţescu, Ioana 3677
Jaiswal, Anuradha; et al. 1195
Janos, Ludvik 8603,13885,13886
Kalinin, V. A. 8604
Kalinowski, Józef; et al. 6111
Kasahara, Shouro 3678a-c,11306,13887,13888
Krasinkiewicz, J. (6102)
Kubiaczyk, Ireneusz 1196
Kuhfittig, Peter K. F. 13889
Maiti, M.; et al. 1197
Mańka, Roman (1183)
Massabò, Ivar 6117
Mullin, Albert A. 6118
Ney, Andrei (1150)
Okano, Hatsuo 11307
Opoĭcev, V. I. 8605
Pal, T. K.; et al. 1197
Ray, B. K. 13890
Ray, Barada K. 3680,3681,8606
Roventa, E.; et al. 13884
Rus, Ioan A. 3682,6119
Sabadîş, Al.; et al. 3683
Sharma, B. K.; et al. 11303
Sharma, P. L.; et al. 11303
Singh, Bijendra; et al. 1195
Tan, Kok Keong; et al. (6065)
Troallic, Jean-Pierre; et al. 8602
Ulewicz, Bartłomiej; et al. 6111
Walter, Wolfgang 1198
Wong, Chi Song 6120
Yen, C. L. 3684
Collection:
Shimizu, Tatsujiro 6119,11305,11306
Ślebodziński, Władysław (1182)
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 6112
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 3682

54J05 Nonstandard topology

Ahmad, Salah; et al. (7724)
Button, Robert Warren 13891
Vasquez, A. T.; et al. (8648)
Yaaseen, Adel, A. K.; et al. (7724)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (8648)

55—XX ALGEBRAIC TOPOLOGY

55-01 *Elementary exposition (collegiate level)*

Guyot, Roger *8607
Liulevicius, Arunas *6121
de Lyra, C. B. *11308
Piccinini, Renzo A. *8608
(Piccinini, Renzo A.) *6121
Schubert, Horst (*11257)
Sims, Benjamin T. (*3628)

55-02 *Advanced exposition (research surveys, etc.)*

Dold, A. *3685
Mac Lane, Saunders (2747)

55-03 *Historical*

(Eilenberg, Samuel) (2387)
Mac Lane, Saunders (2387)
Algebra, topology and category theory (a collection of papers in honor of Samuel Eilenberg) (2387)

55Axx Low-dimensional topology (See also 57Axx.)

55A05 *Fundamental group, presentations, free differential calculus* [*See also* 20E40.]

Chipman, J. C. (5351)
Gramellini, M. Letizia; et al. 13892
Tozzi, Anna; et al. 13892

55A10 *Covering spaces, branched coverings*

Farrell, F. Thomas 6122
Hilden, Hugh M.; et al. (8635)
Montesinos Amilibia, José María 8609,(8635)
Thickstun, Thomas; et al. (8635)
Tretkoff, Marvin (5355)

55A15 *Graphs and map coloring* [*For other graph theory, see* 05Cxx.]

Kainen, Paul C. (5031)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Third (1972) (5031)

55A20 *Two-dimensional complexes*

Dunwoody, M. J. 13893
Dyer, Eldon; et al. (8648)

55A25 *Knots and links* [*For the high-dimensional case, see* 57C45.]

Birman, Joan S. *13894
(Cannon, James) *13894
Deligne, Pierre (10659)
Gutiérrez, M. A. (10319)
Lambert, Howard (8636)
Montesinos Amilibia, J. M. 13895
Riley, Robert 1199,13896
Simon, Jonathan 6123

55Bxx Homology and cohomology theories

55B05 *Čech types*

Petkova, Stanislava V. 1200

55B10 *Singular theory*

Schön, Rolf 13897

55B15 *K-theory* [*For algebraic K-theory, see* 18F25.]

Ishikawa, Nobuhiro; et al. 1201
Karoubi, Max 11309
Kučment, P. A.; et al. 6124
Pankov, A. A.; et al. 6124
Snaith, Victor P. (8618)
Tineo, Antonio *8610
Yasuo, Minato; et al. 1201
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11309

55B20 *Generalized (extraordinary) homology and cohomology theories, spectra*

Fujii, Michikazu 8611
Hilton, Peter 11310
Landweber, Peter S. 11311
Ravenel, Douglas C. 8612
Shimada, Nobuo; et al. (3723)
Shimakawa, Kazuhisa 11312
Würgler, Urs (6173)
Yagita, Nobuaki; et al. (3723)
Yosimura, Zen-ichi 3686
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 11310

55B25 *Homology with local coefficients, equivariant cohomology*

Kosniowski, Czes 1202
Mostow, Amrk Alan (1253)

55B35 *Other homology theories*

Buoncristiano, S.; et al. (*1234)
Richman, Fred 13898
Rourke, C. P.; et al. (*1234)
Sanderson, B. J.; et al. (*1234)

55B40 *Axioms for homology theory and uniqueness theorems*

Piccinini, Renzo A. 8613

55Cxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57A05, 57A10, 57A15.)

55C20 *Fixed points and coincidences* [*See also* 54H25.]

Borisovič, Ju. G.; et al. (*11348)
Cohen, Fred; et al. 13899
Fournier, Gilles; et al. 8614
Górniewicz, Lech; et al. 8614
Halpern, Benjamin 13900
Husseini, S. Y. 8615
Iliadis, S. D. 6125
Izrailevič, A. Ja.; et al. (*11348)
Komarov, I. Ju. 1203
Kucharski, Z. 3687
Lusk, Ewing L.; et al. 13899
Muhamadiev, È. M.; et al. (*11348)
Pak, Jingyal 8616
Schirmer, Helga 1204
Skordev, G. S. 11313,11314,13901

55C25 *Degree*

Skordev, Genčo S. 8617
Smaith, Victor P. 8618

55C30 *Ljusternik-Schnirelman category of a space*

Singhof, Wilhelm 13902

55C35 *Finite groups of transformations (Smith theory)*

Izrailevič, Ja. A. 1205
Skordev, Genčo S. 1206

55Dxx Homotopy theory (For simple homotopy type, see 57C10.)

55D05 *Homotopy extension properties, cofibrations*

Alder, Michael D. 1207
Caruncho Castro, José R.; et al. 3688
Hoff, Georges (12862)
Johnsonbaugh, R. 13903
Pop, I. 8619
Touzón Pérez, Constantino; et al. 3688
Trouê, Jacques 6126
Tulley McAuley, Patricia 11315
Vaĭnsteĭn, A. G. (6052)
Esquisses mathématiques, No. 23 (12862)

55D10 *Homotopy equivalences*

Becker, J. C.; et al. 3689
Dydak, J. (1158)
Dydak, J.; et al. (1157)
Fuchs, Martin 1208
Heath, Philip R. 13904
Heath, Philip R.; et al. 13905
(Hilton, Peter) 8620
Kamps, Klaus Heiner; et al. 13905
de Lyra, C. B.; et al. 8620
Mardešić, Sibe (8562)
Mislin, Guido 3690
Nowak, S.; et al. (1157)
Parks, James M. 1209
Schultz, R. E.; et al. 3689
Strok, M.; et al. (1157)
Toomer, Graham Hilton 11316

55D15 *Classification of homotopy type*

Adams, J. F. *8621
Bousfield, A. K.; et al. 13906
Dyer, Micheal N. 3691
Dyer, Micheal N.; et al. 13907
Feder S.; et al. 11317
(Fiedorowicz, Z.) *8621
Gitler, S.; et al. 11317
Gugenheim, V. K. A. M. 6127
Gugenheim, V. K. A. M.; et al. 13906
Hilton, Peter; et al. 13908
Naehara, Ryuji 6128
Mislin, Guido; et al. 13908
Shastri, A. R. 6129
Sieradski, Allan J.; et al. 13907

55D20 *Eilenberg-MacLane spaces*

Kan, D. M.; et al. 1210
Moore, John C. 1211
Thurston, W. P.; et al. 1210
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) 1121

55D35 *Loop spaces*

Anderson, D. W. 8622
Boardman, J. M.; et al. *8623a
Goldfeather, Jay E. 11318
May, J. P. *8623b
Priddy, Stewart B. 1212
Vogt, R. M.; et al. *8623a
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8622

55D40 *Suspensions*

Kraines, David (11334)
Meier, Willi *1213
Segal, G. B. 11319
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11319

55D45 *H-spaces and duals*

Belfi, Victor; et al. 6130
Borel, François 13910
Husemoller, Dale (1222)
Kane, Richard 6131,11320
Lin, James P. 13911
de Lyra, C. B. 11321
Meier, Willi 11322
Saito, Shiroshi 11323
Sigrist, François; et al. 11324
Smaith, Victor P. 1214
Strambach, Karl 1215
Suter, Ulrich; et al. 11324
Vogt, Rainer M. 11325
Wilkerson, Clarence; et al. 6130
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (1222)

55D99 *None of the above, but in this section*

Bacon, Philip 8624
BogatyĬ, S. A. 13912
Borsuk, Karol *6132
Edwards, David A.; et al. 1216,11326
Geoghegan, Ross; et al. 1216,11326
Kodama, Yukihiro 6133
Moszyńska, M. 11327
Olędzki, Juliusz 8625
Rosłaniec, H. (11295)
Sanders, Thomas J. (13842)

55Exx Homotopy groups

55E05 *Homotopy groups, general; sets of homotopy classes*

Brown, Ronald; et al. 1217
Danesh-Naruie, G.; et al. 1217
Demers, Luc 3692
Dydak, J. 8626
Edwards, D. A.; et al. 3693
Georghegan, Ross; et al. 3693
Grossman, Jerrold W. 1218
Kwak, Jin Ho 3694
Moszyńska, M. 8627
Quigley, J. Brendan 1219
Strutt, Joseph 11328
Studies in topology (Proc. Conf., Univ. North Carolina, Charlotte, N. C., 1974) 3692

55E10 *Stable homotopy groups*

Brumfiel, G.; et al. 1220
Hirashima, Yasumasa; et al. 6134
Knapp, Karlheinz 6135
Lin, T. Y. 6136
Madsen, I.; et al. 1220
Oshima, Hideaki; et al. 6134
Segal, G. B. (11319)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11319)

55E15 *Whitehead products and generalizations*

Nomura, Yasutoshi 8628

55E20 *Homotopy groups of wedges, joins, and simple spaces*

Baues, Hans Joachim 3695

55E25 *Hopf invariants*

Baues, Hans Joachim 8629

55E40 *Homotopy groups of spheres*

Milgram, R. J.; et al. (8660)
Mukai, Juno 3696
Nomura, Yasutoshi 6137
Oda, Nobuyuki 8630
Randall, Duane 3697
Roitberg, Joseph 6138
Wilson, George 6139
Zvengrowski, P.; et al. (8660)

55E45 *Stable homotopy of spheres*

Oka, Shichirô 6140
Smith, Larry 11329
Thomas, Emery; et al. 11330
Zahler, Raphael; et al. 11330

55E50 *The J-morphism*

Suter, Ulrich 8631

55Fxx Fiber spaces and bundles (See also 18F15.)

Dedecker, Paul (*13955)

55F05 *Fiber spaces*

Halbhavi, I. G.; et al. 6141
Varadarajan, K.; et al. 6141

55F10 *Fiber bundles*

Kac, G. A. 1221
Katz, Elyahu 13913

55F15 *Classification*

Atiyah, M. F.; et al. (7870)
Dupré, Maurice J. (3435)
Rees, E.; et al. (7870)

55F25 *Sphere bundles and vector space bundles*

Varadarajan, K. (13931)

55F35 *Classifying spaces of groups and H-spaces*

Adams, J. F.; et al. 11331
Brown, Ronald; et al. (459)
Hardy, J. P. L.; et al. (459)
Mahmud, Z.; et al. 11331
Bibliography: Topological groupoids (459)

55F40 *Homology of classifying spaces, characteristic classes*

Kono, Akira 6142

55F45 *Homology and homotopy of BO and BU; Bott periodicity*

Adams, J. F. 3698
Husemoller, Dale 1222
Liulevicius, Arunas 11332
Sjerve, Denis 1223
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 1222

55F50 *Stable classes of vector space bundles, K-theory [For algebraic K-theory, see 18F25.]*

Deheuvels, R. 13914a-b
Kandelaki, T. K. 11333
Maiorana, James (12866)

55Gxx Operations and obstructions

55G05 *Primary cohomology operations*

Moore, John C. (1211)
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) (1211)

55G10 *Steenrod algebra*

Singer, William M. 3699

55G25 *K-theory operations and generalized cohomology operations*

Hubbuck, J. R. (13937)
Kervaire, Michel (5325)
Ravenel, Douglas C. 8632

55G35 *Obstruction theory*

Little, Robert D. 6143

55G40 *Sectioning fiber spaces and bundles*

Little, Robert D. 6144
Yoshida, Toshio 3700

55Hxx Spectral sequences

55H15 *Adams spectral sequences*

Nakamura, Osamu 1224

55H20 *Eilenberg-Moore spectral sequences*

Kono, Akira; et al. (3732)
Kraines, David 11334
Mimura, Mamoru; et al. (3732)
Shimada, Nobuo; et al. (3732)

55H25 *Generalized cohomology*

Meier, Willi (*1213)
Minami, Haruo (3727a-b)
Morisugi, Kaoru 3701

55Jxx Applied homological algebra (See also 18Gxx.)

55J10 *Semisimplicial complexes*

Clark, W. Edwin (2764)

55J99 *None of the above, but in this section*

Dyer, Micheal N. (3691)
Edwards, David A.; et al. (12864)
Hastings, Harold M.; et al. (12864)
Moore, John C. (3733)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (3733)

57—XX MANIFOLDS AND CELL COMPLEXES (For complex manifolds, see 32C10.)

57-02 *Advanced exposition (research surveys, etc.)*

Santaló, L. A. (1093)
Siebenmann, L. C. 11335
Sullivan, D. 13915
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11335
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 13915

57-03 *Historical*

Atiyah, M. F. (2383)
(Novikov, S. P.) (2383)
Actes du Congrès International des Mathématiciens, (Nice, 1970), Tome 1 (2383)

57Axx Topological manifolds

57A05 *Topology of E_2, 2-manifolds*

Meyerson, Mark D. 13916

57A10 *Topology of E_3, 3-manifolds [See also 55Axx.]*

Armentrout, Steve *1225
Ferri, M.; et al. 13919
Fomenko. A. T. (13695)
Gagliardi, C.; et al. 13919
Hatcher, Allen 8633
Hempel, John *3702
Hendriks, Harrie 8634
Hilden, Hugh M. 13917
Hilden, Hugh M.; et al. 8635
Lambert, Howard 8636,8637
Montesinos Amilibia, José María; et al. 8635
Neumann, Dean A. 1226
Pezzana, M.; et al. 13919
Pezzana, Mario 13918
Raymond, Frank; et al. 3703
Riley, Robert (542,13896)
Rosen, Harvey 3704
Rubinstein, J. H. 8638
Scharf, Alois *13920
Scott, Peter *1227
Stallings, John *3705,13921
Thickstun, Thomas; et al. 8635
Tollefson, Jeffrey L.; et al. 3703
Woodruff, Edythe P. 6145
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13921
Collection: Bompiani, Enrico 13918,13919
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (13695)
Topology Conference (Virginia Polytech. Inst. and State Univ., 1973) 6145

57A15 *Topology of E_n, n-manifolds ($3 < n < \infty$)*

Czyż, J. (1151)
Geoghegan, R.; et al. 1228,(6073)
Jaco, William; et al. 3706
Lacher, R. C.; et al. (6073)
Shalen, Peter B.; et al. 3706
Summerhill, R. R.; et al. 1228
Wright, David G. 1229,8639

57A17 *Topology of topological vector spaces*

Bessaga, C. 8640

57A20 *Topology of infinite-dimensional manifolds [See also 58Bxx.]*

Chapman, T. A. *11336
Chapman, T. A.; et al. 3708b-c,13922
Fathi, A.; et al. (8680)
Ferry, Steve (11364)
Heisey, Richard E. 6146,(11373),13923
Henderson, David W. (8591)
Kroonenberg, Nelly 1230
Łysko, J. M. 1231
Siebenmann, L. C.; et al. 13922
Visetti, Y. M.; et al. (8680)
Wong, R. Y. T. 3707,3708a,8641
Wong, R. Y. T.; et al. 3708b-c
General topology and its relations to modern analysis and algebra, III 3707
Symposium on Infinite-Dimensional Topology (1967) (8591),8641

57A35 *Imbeddings and immersions*

Antonelli, P. L. (13936)
Heisey, Richard E. (*11373)
Kobayashi, Kazuaki 11337
Rosen, Ronald H. 8642
Štan'ko, M. A. 1232

57A40 *Neighborhoods of submanifolds*

Ferry, Steve 1233
Guillou, L.; et al. 13924
Hähl, H.; et al. 13924

57A45 *Flatness*

Daverman, Robert J. 8643,8645
Hollingsworth, J. G.; et al. 8644
Rushing, T. B.; et al. 8644

57A55 *Microbundles*

Varadarajan, K. (13931)

57A65 *Algebraic topology of manifolds*

Buoncristiano, S.; et al. *1234
Randell, Richard C. (1270)
Rourke, C. P. (8655)
Rourke, C. P.; et al. *1234
Sanderson, B. J.; et al. *1234
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8655)

57A70 *Cobordism*

Milgram, R. James 8646
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 8646

57A99 *None of the above, but in this section*

de Bartolomeis, P. 8647
Doyle, P. H.; et al. 13925
Hocking, J. G.; et al. 13925

57Bxx Generalized manifolds (See also 18F15.)

57B10 *Poincaré duality spaces*

Browder, William (3719)
Dyer, Eldon; et al. 8648
Vasquez, A. T.; et al. 8648
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (3719)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 8648

57Cxx PL-topology

57C05 *The general topology of complexes*

Bolker, Ethan D. (112)
Dunwoody, M. J. (13893)
Edwards, D. A.; et al. (3693)
Fáry, István 8649
Geoghegan, Ross; et al. (3693)
Gray, John W. (378)
Schirmer, Helga (1204)
Weinstein, J. 6147
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (378)

57C10 *Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc.*

Anderson, Douglas R.; et al. (1235)
Casson, A. J. 11338
Farrell, F. Thomas (11355)
Hatcher, Allen; et al. (3721)
Hsiang, Wu Chung; et al. (1235)
Lawson, Terry; et al. (3721)
Šošitaĭšvili, A. N. (5492)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11355)
Algebraic *K*-theory, II: "Classical" algebraic *K*-theory and connections with arithmetic 11338

57C15 *Triangulating manifolds*

Barnette, D.; et al. (13926)
Galewski, David E.; et al. 8650
Gancarzewicz, Jacek 11230
Gannon, D.; et al. (13926)
Scharlemann, Martin (3710)
Stern, Ronald J.; et al. 8650

57C20 *Cobordism*

Buoncristiano, S.; et al. (*1234)
Rourke, C. P.; et al. (*1234)
Sanderson, B. J.; et al. (*1234)

57C25 *Comparison of PL-structures: classification, Hauptvermutung*

Altshuler, A.; et al. (11174)
Anderson, Douglas R.; et al. 1235
Barnette, D.; et al. 13926
Gannon, D.; et al. 13926
Gauld, David B. (8681)
Hsiang, Wu Chung; et al. 1235
Steinberg, L.; et al. (11174)

57C30 *Engulfing*

Buoncristiano, S. 1237

57C35 *Imbeddings and immersions*

Antonelli, P. L. (13936)
Homenko, M. P.; et al. 13927
Vivrot, T. M.; et al. 13927
Wright, David B. (8639)
Topological aspects of graph theory 13927

57C40 *Regular neighborhoods*

Vrabec, J. 11339

57C45 *Knots and links (in high dimensions)* [*For the low-dimensional case, see* 55A25.]

Abe, Kinetsu (11227)
Brieskorn, Egbert (10660)
Cappell, Sylvain E.; et al. 1238
Eckmann, Beno 1239
de George, David L.; et al. 8651
Gordon, C. McA. 1240
Gutiérrez, Mauricio A. *3709
Jordan, Steven L.; et al. (1126)
Kauffman, Louis H.; et al. (1126)
Lambert, Howard (8637)
Lannes, J. (231)
Levine, Jerome 8652
Liang, Chao Chu 1241
Lopez de Medrano, Santiago 8653
Miller, John L. 6148
Reddy, William L.; et al. 8651
Salanova, Ma. A. (5229)
Scharf, Alois (*13920)
Shaneson, Julius L.; et al. 1238
Viro, O. Ja. 8654
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8652,8653
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (10660)

57C50 *Microbundles and block bundles* [*See also* 55F60.]

Buoncristiano, S.; et al. (*1234)
Millett, Kenneth C. 11340
Rourke, C. P. 8655
Rourke, C. P.; et al. (*1234)
Sanderson, B. J.; et al. (*1234)
Varadarajan, K. (13931)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8655

57C55 *Approximations*

Kato, Mitsuyoshi 6149
Oleksiv, I. Ja. 1236
Manifolds-Tokyo 1973 6149
Mathematical methods, and physical and mechanical fields, No. 1 1236

57C99 *None of the above, but in this section*

Edmonds, Allan L.; et al. (13946)
Fintushel, Ronald; et al. (13946)
Goldstein, Richard Z.; et al. (3724)
Kwun, Kyung Whan; et al. 6150
Tollefson, Jeffrey L.; et al. 6150
Turner, Edward C.; et al. (3724)
Walsh, John J. (13838)

57Dxx Differential topology (For foundational questions of differentiable manifolds, see 58Axx; for infinite dimensional manifolds, see 58Bxx.)

57D05 *Triangulating*

Lashof, R. (3712)
Scharlemann, Martin 3710
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (3712)

57D10 *Smoothing*

Brumfiel, G.; et al. (1220)
Hirsch, Morris W.; et al. *3711
Lashof, R. 3712
Madsen, I.; et al. (1220)
Mazur, Barry; et al. *3711
Morita, S. 1242
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 3712
Geometry of manifolds (Proc. Sympos., R.I.M.S., Kyôto Univ., Kyôto, 1972) 1242

57D12 *Smooth approximations*

Morita, S. (1242)
Geometry of manifolds (Proc. Sympos., R.I.M.S., Kyôto Univ., Kyôto, 1972) (1242)

57D15 *Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)*

Abe, Kinetsu (11227)
Abe, Kinetsu; et al. (6019)
Albert, Claude 8656
Auslander, L.; et al. 11341
Dibag, I. (11228)
Donnelly, Harold (3636)
Erbacher, Joseph; et al. (6019)
Johnson, F. E. A.; et al. 11341
Nomizu, Katsumi (11240)
Popovici, Iulian (13810,13811)
Wall, C. T. C. 11342
Yagi, Katsumi (13771)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 11342
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 1) (11240)

57D20 *Characteristic classes*

Abelson, Harold (12786)
Cheeger, Jeff 11343
Chern, Shiing Shen (609)
Contou-Carrère, Carlos E. 11344
Crumeyrolle, Albert 8657
Dupont, Johan L. 1243
Farber, M. Š. 1244
Gabrièlov, A. M.; et al. 1245
Gel'fand, I. M.; et al. 1245
Goldstein, Richard Z.; et al. (3724)
Hsiang, Wu Yi (13947)
Koszul, Jean-Louis 13928
Libermann, Paulette 8692
Losik, M. V.; et al. 1245
Peterson, F. P. (8678)
Ranicki, Andrew; et al. 11345
Rohlin, V. V. (11380)
Sharma, B. L. 6151
Solov'ev, Ju. P. 8658a-b
Sullivan, Dennis; et al. 11345
Sutherland, W. A. 11346
Tan, S. L. 8659
Teleman, Nicolae 6152
Turner, Edward C.; et al. (3724)
Whiston, George S. 11347
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8678)
Collection:
Albert, Abraham Adrian (609)
Bompiani, Enrico (8692)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (13947)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11343
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 13928

57D25 *Vector fields, frame fields, etc.*

Albrecht, Felix *3713
Asimov, Daniel 6153
Atiyah, M. F. 3768
Borisovič, Ju. G.; et al. *11348
Chern, Shiing Shen (609)
Dediu, Mihai 6154,6155
Dupont, Johan L. 13929
Fuks, D. B. 1246
Godbillon, Claude 6156
Haefliger, André (8667)
Herman, M. R. (8723)
Hermes, Henry (8719,11389)
Izrailevič, A. Ja.; et al. *11348
Lichnerowicz, André (8763)
Little, Robert D. (6144)
Masuda, Kazuo 6157
Milgram, R. J.; et al. 8660
Morimoto, Tohru 8661
Muhamadiev, E. M.; et al. *11348
Nakanishi, Nobutada (8764)
Perchik, James 13930
Perrizo, William (13883)
Popovici, Iulian (13810,13811)
Rosca, Radu (13783)
Rosenberg, Harold (8736)
Shnider, Steven (6162)
Strutt, Joseph (11328)
Sussmann, Héctor J. (13964)
Titus, Charles J. (3728)
Tsujishita, Toru 1247,8662
Varadarajan, K. 13931
Yoshida, Toshio (3700),11349
Zvengrowski, P.; et al. 8660
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 3768
Collection: Albert, Abraham Adrian (609)
Differential topology and geometry (Proc. Colloq., Dijon, 1974) (8723)
Forschungsinstitut für Mathematik, ETH *3713
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11389)
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (8667)
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 6156,(8736)
Symposium on Complex Manifolds (Kyoto, 1974) 8662

57D30 *Foliations*

Albert, Claude (8656)
Al-Borney, M. S.; et al. (8540)
Bernstein, I. N.; et al. 3714
Bott, Raoul 13932
Brickell, F.; et al. (8540)
Brown, Ronald; et al. (459)
Camacho, Cesar; et al. (1301)
Cantwell, John; et al. 8663
Clark, R. S.; et al. (8540)
Conlon, Lawrence; et al. 8663
Cordero, L. A. 1248
Epstein, D. B. A. 8664
Fédida, Edmond; et al. 6158,8665
Franks, John M. 3715
Fuks, D. B. 3716
Fuks, D. B.; et al. 6159
Furness, P. M. D.; et al. 8665
Furness, Peter; et al. 6158
Gasqui, Jacques (8687)
Gel'fand, I. M.; et al. 6159
Godbillon, Claude 8666
Goodman, Sue E. 11350
Haefliger, André 8667
Hardy, J. P. L.; et al. (459)
Harrison, Jenny 6160
Hector, Gilbert 1249
Henaut, Alain (7867)
Imanishi, Hideki 3717
Imanishi, Hideki; et al. 8668
Kamber, Franz W.; et al. *1250
Kamga, Jean Wouafo; et al. 1254
Kuiper, Nicolaas H.; et al. (1301)
Lamoureux, Claude 6161,11351
Liang, Chao Chu 1251
Medina Perea, Alberto 8669,8670
Mizutani, Tadayoshi 11352
Molino, Pierre 1252,8671
Mostow, Mark Alan 1253
Palis, Jacob; et al. (1301)
Palmeira, Carlos Frederico B. 13933
du Plessis, Andrew (1284)
Pradines, Jean; et al. 1254
Rea, C. (13115)
Rosenberg, Harold (8736)
Rosenfel'd, B. I.; et al. 3714
Shnider, Steven 6162
Sullivan Dennis 6163,(13915)
Tan, S. L. (8659)
Thurston, W. P. 13934
Tischler, D.; et al. 8672
Tischler, R.; et al. 8672
Tondeur, Philippe; et al. *1250
Uomini, R. 6164
Vaisman, Izu (3773)
Wallet, Guy 11353
Yagi, Kuniko; et al. 8668
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 13932
Bibliography: Topological groupoids (459)
Differential topology and geometry (Proc. Colloq., Dijon, 1974) 1248
Fonctions de plusieurs variables complexes, II (Sém. François Norguet, Janvier 1974-Juin 1975) (7867)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (13915)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 8666,8667
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (8736)
Topics in differential geometry (in memory of Evan Tom Davies) (8540)

57D35 *Differentiable mappings*

Quine, J. R. 13935
Titus, Charles J. (3628)

57D40 *Imbeddings and immersions*

Antonelli, P. L. 13936
Berrick, A. J. 8673,8674
Gromov, M. L. (1323)
Hubbuck, J. R. 13937
Ilori, S. A. (12798)
Kac, G. A. (1221)
Ocken, Stanley 1255
Ōike, Hiroshi 13938
Shizuma, Ryoji; et al. 6165
Uno, Saeko; et al. 6165
Wall, C. T. C. (11342)
Yasui, Tsutomu 13939
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (11342)

57D45 *Singularities of differentiable mappings*

Abe, Kinetsu (11227)
Abe, Kinetsu; et al. (6019)
Chenciner, Alain (8702)
Erbacher, Joseph; et al. (6019)
Ferrari, Aldo; et al. (3745)
Kuiper, Nicolaas H. (1282)
Lander, Les (11376)
Little, J. A. 6166b
Łojasiewicz, S. (585)
Losik, M. V. (8705)
McCrory, Clint 3718
Monti Bragadin, Giacomo; et al. (3745)
Rohlin, V. V. (11380)
Titus, C. J. 6166a
Wall, C. T. C. 6166c
Differential geometry, No. 1 (8705)
Proceedings of Liverpool Singularities Symposium, II (1969/1970) 6166a-c
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (8702)
Symposium on Infinite-Dimensional Topology (1967) (1282)

57D50 *Diffeomorphisms*

Anderson, Boyd (11403)
Favaro, L.; et al. 11354
Grines, V. Z. (6203)
Hatcher, Allen; et al. (3721)
Lawson, Terry; et al. (3721)
Wells, R.; et al. 11354

57D55 *Differentiable structures*

Mandelbaum, Richard; et al. 1256
Mišečon, B. G.; et al. 1256

57D60 *Homotopy spheres, Poincaré conjecture*

Dennis, R. Keith; et al. (279)
Keating, Michael E.; et al. (279)
Liang, Chao Chu (1241)
Lopez de Medrano, Santiago (8653)
Stein, Michael R.; et al. (279)
Winkelnkemper, H. E. 1257
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8653)

57D65 *Surgery and handlebodies*

Browder, William 3719
Brumfiel, G.; et al. (1220)
Cappell, Sylvain E.; et al. 6167
Farrell, F. Thomas 11355
Hausmann, Jean-Claude 11356
Ishimoto, Hiroyasu 1258
Latour, François 3720
Lewis, D. W. (12646)
Loday, Jean-Louis *867
Madsen, I.; et al. (1220)
Maunder, C. R. F. 1259,1260
Miščenko, A. S. 1261
Shaneson, Julius L.; et al. 6167
Sullivan, D. (13915)
Wall, C. T. C. 11357,(12860,12861)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 3719
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11355
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (13915)
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 3720

57D70 *Critical points and critical submanifolds*

Arnol'd, V. I. (8701)
Ehrlich, Paul E. (6022)
Eschenburg, Jost-Hinrich; et al. (6194)
Gluck, Herman; et al. (3624,3625)
Kellogg, R. B.; et al. (4087)
Li, T. Y.; et al. (4087)
Masuda, Kazuo 6168
Michel, Dominique (6031)
Milnor, John 6169
Morse, Marston 6170
O'Sullivan, John J.; et al. (6194)
Singer, David; et al. (3624,3625)
Yorke, J.; et al. (4087)
Zakaljukin, V. M. (1294)
Knots, groups and 3-manifolds (Papers dedicated to the memory of R. H. Fox) 6169

57D75 *O- and SO-cobordism*

Liulevicius, Arunas (11332)

57D80 *h- and s-cobordism*

Barge, Jean; et al. *8676
Hatcher, Allen; et al. 3721
Lannes, Jean; et al. *8676
Latour, François; et al. *8676
Lawson, Terry; et al. 3721
Poenaru, Valentin 3722
Vogel, Pierre; et al. *8676
Séminaire Bourbaki (1970/1971: Exposés Nos. 382-399) 3722

57D85 *Equivariant cobordism*

Beem, R. Paul 13940
Capobianco, Frank L. 13941,13942
Khare, S. S.; et al. 11358
Kosniowski, Czes 13943
Kričever, I. M. 1262
Rowlett, R. J. 6171
Segal, G. B. (11319)
Sharma, B. L.; et al. 11358
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11319)

57D90 *Other types of cobordism*

Brown, Edgar H., Jr. (13944)
Crumeyrolle, Albert (8657)
Didierjean, André 8677
Domínguez, E. 11359
Domínguez Murillo, Eladio 11360
Fujii, Michikazu (8611)
Hsiung, Chuan Chih 6172
Karoubi, Max 1263
Kreck, M. 11361
McCrory, Clint (3718)
Peterson, F. P. 8678
Shimada, Nobuo; et al. 3723
Shimakawa, Kazuhisa (11312)
Würgler, Urs 6173
Yagita, Nobuaki; et al. 3723
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8678
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) 1263

57D95 *Realizing cycles by submanifolds*

Abe, Kojun; et al. 11362
Adachi, Masahisa; et al. 11362
Brown, Edgar H., Jr. 13944
Freedman, Michael H. 1264
Goldstein, Richard Z.; et al. 3724
Kawai, Sōichi (7472)
Lanteri, Antonio 6174
Masuda, Kazuo (6168)
Meyerson, Mark D. (13916)
Turner, Edward C.; et al. 3724
Symposium on Complex Manifolds (Kyoto, 1974) (7472)

57D99 *None of the above, but in this section*

Husseini, S. Y. (8615)
Nakaoka, Minoru 8679

57Exx Topological transformation groups {See also 20E40, 22—XX, 54H15, 58D05.}

Hsiang, Wu Yi *11363

57E05 *Topological properties of groups of homeomorphisms*

Fathi, A.; et al. 8680
Ferry, Steve 11364
Gauld, David B. 8681
Gramain, André 13945
Ho, Chung Wu (8682)
Visetti, Y. M.; et al. 8680
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 13945

57E10 *Compact groups of homeomorphisms*

Allday, Christopher 8683
Antonevič, A. B. (8740)
Chang, Theodore (13954)
Edmonds, Allan L.; et al. 13946
Fintushel, Ronald; et al. 13946
Hoffman, David; et al. 11365
Hsiang, Wu Yi 13947
Maiorana, James A. 11366
Mann, L. N.; et al. 11365,11367
Raymond, Frank; et al. (3703)
Seda, A. 3725
Sicks, J. L.; et al. 11367
Tollefson, Jeffrey L.; et al. (3703)
Yang, C. T. 13948
Mathematical developments arising from Hilbert problems (Proc. Sympos. Pure Math., Northern Illinois Univ., De Kalb, Ill., 1974) 13948
Mathematical Summer School, Seventh (Kaciveli, 1969) (8740)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 13947

57E15 *Compact Lie groups of differential equations*

Albu, Adrian C.; et al. *1266
Becker, J. C.; et al. (3689)
(Bix, Michael) *11368
Bredon, Glen E. *1265
Burghelea, Dan; et al. *1266
Capobianco, Frank L. (13941)
tom Dieck, Tammo *11368
Edmonds, Allan L.; et al. 1267,8684
Hsiang, Wu Chung 13949
Ishikawa, Nobuhiro; et al. (1201)
Ku, Mei Chin 3726
Kwun, Kyung Whan; et al. (6150)
Lee, Ronnie; et al. 1267,8684
Luna, Domingo (11377)
Minami, Haruo 3727a-b
Oliver, Robert 11369
Orlik, Peter *13950
Poénaru, V. (*13976a-d)
Raţiu, Tudor S.; et al. *1266
Scharf, Alois (*13920)
Schultz, R. E.; et al. (3689)
Segal, G. B. (11319)
Sjerve, Denis (1223)
Tollefson, Jeffrey L.; et al. (6150)
Weintraub, Steven H. 1268
Yasuo, Minato; et al. (1201)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11319),13949

57E20 *Noncompact Lie groups of transformations*

Boju, V. (1306)
Gollek, Hubert 3728
Kim, Ki Woong 11370
Kreck, M. (11361)
Mann, L. N. 8685

57E25 *Groups acting on specific manifolds*

Azencott, Robert; et al. 13951
Cappell, Sylvain E.; et al. (6167)
Jones, Lowell 8686
Kawakubo, Katsuo 1269
Lopez de Medrano, Santiago (8653)
Madsen, I.; et al. 13952
McGavran, Dennis 3729
Oliver, Robert 3730
Petrie, Ted 6175
Randell, Richard C. 1270
Resch, Richard I. 13953
Shaneson, Julius L.; et al. (6167)
Thomas, C. B.; et al. 13952
Wall, C. T. C.; et al. 13952
Wilson, Edward N.; et al. 13951
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8653)
Proceedings of the Conference on Compact Transformation Groups, Second, Part I 6175

57E99 *None of the above, but in this section*

Kamber, Franz W.; et al. (*1250)
Löwen, Rainer (7691)
Tondeur, Philippe; et al. (*1250)
Turiel, Francisco Javier (11421)

57Fxx Homology and homotopy of topological groups and related structures

57F05 *Hopf algebras [See also 16A24.]*

Kane, Richard (11320)
Lin, James P. (13911)

57F10 *Homology of Lie groups*

Ishitoya, Kiminao; et al. 3731
Kono, Akira (6142)
Kono, Akira; et al. 3731,3732
Mimura, Mamoru; et al. 3732
Shapiro, Jack (419)
Shimada, Nobuo; et al. 3732
Toda, Hirosi; et al. 3731

57F15 *Homology of homogeneous spaces of Lie groups*

Matsushima, Yozo 6176
Minami, Haruo (3727a-b)
Strutt, Joseph (11328)

57F20 *Homotopy groups of topological groups and homogeneous spaces*

Gorbacevič, V. V. 1271
Hardy, J. P. L.; et al. 12951
Morris, Sidney A.; et al. 12951
Singhof, Wilhelm (13902)

57F25 *Homology of H-spaces*

Adams, J. F. (3698)

57F30 *Bar and cobar constructions*

Chen, Kuo Tsai 1272
Nakamura, Osamu (1224)
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 1272

57F99 *None of the above, but in this section*

Adams, J. F.; et al. (11331)
Chang, Theodore 13954
Mahmud, Z.; et al. (11331)
Moore, John C. 3733
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) 3733

58—XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS {For real-analytic and complex manifolds, see 32Cxx; for geometric integration theory, see 49F20, 49F22.}

58-01 *Elementary exposition (collegiate level)*

Albu, Adrian C.; et al. *6177
Dedecker, Paul *13955
Efimov, N. V. (*3599)
Holmann, H. (*2949,*2950)
(Kaup, B.) (*2949,*2950)
Papuc, Dan I.; et al. *6177
Singer, I. M.; et al. *1273
Sulanke, R.; et al. *1274
Thorpe, J. A.; et al. *1273
Wintgen, P.; et al. *1274

58-02 *Advanced exposition (research surveys, etc.)*

Boothby, William M. *13956
Santaló, L. A. (1093)

58-06 *Collections of papers; proceedings of conferences*

Bull. Soc. Math. France, Mém. No. 46 *3734

58-06 *Continued*

Differential geometry, No. 2 (*5982)
Géométrie de la dimension infinie *3734
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) *3734

58Axx General theory of differentiable manifolds

58A05 *Differentiable manifolds, foundations*

Kawahara, Yasuo 3735
Laptev, G. F. 6178
Waliszewski, W. 1275
Winogradzki, J. 13957

58A10 *Differential forms*

Auer, J. W. 11371
Bousfield, A. K.; et al. (13906)
Chen, Kuo Tsai (1272)
Formisano, Maria Rosaria (363)
Gasqui, Jacques 8687
Golubitsky, Martin; et al. 3736
Gugenheim, V. K. A. M. (6127)
Gugenheim, V. K. A. M.; et al. (13906)
Jackin, N. I. 8688
Moussu, Robert 3737
Saito, Kyoji 1276
Shankara, T. S. 13958
Sundararaman, D. (3030)
Tischler, David; et al. 3736
Algebra, topology, and category theory (a collection of papers in honor of Samuel Eilenberg) (1272)

58A15 *Exterior differential systems (Cartan theory)* [*For variational problems, see* 49F05.]

de Barros, Constantino M. *13959
Estabrook, Frank B.; et al. (3191)
Hermes, Henry (11389)
Ibragimov, N. H. 13960
Kinosita, Kiyosi 3738
Pečnikov, I. A. 13961
Rund, Hanno 1277
Titarenko, Ju. V. 8689,8690
Toda, Morikazu; et al. (4452,4453)
Vosylius, R. (1278)
Wadati, Miki; et al. (4452,4453)
Wahlquist, Hugo D.; et al. (3191)
Yoshida, Masaaki 13962
Geometry collection, No. 15 13961
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11389)

58A20 *Jets*

Izraĭlevič, V. L. 3739
Kolář, Ivan 3740
Lyčagin, V. V. 8691
Ruelle, David; et al. (3759)
Sullivan, Dennis; et al. (3759)
Vosylius, R. 1278
Yuen, Christophe 3619
Differential geometry, No. 1 3739

58A30 *Vector distributions (sub-bundles of the tangent bundles)*

Kamga, Jean Wouafo; et al. (1254)
Libermann, Paulette 8692
Neagu, Alexandru 8693
Pradines, Jean; et al. (1254)
Tan, Sin Leng 11372
Turiel, Francisco Javier 13963
Collection: Bompiani, Enrico 8692

58A99 *None of the above, but in this section*

Sussmann, Héctor J. 13964

58Bxx Infinite dimensional manifolds (See also 57A20.)

58B05 *Homotopy and topological questions*

de Andrade, Rubens Leão (8718)
Chapman, T. A. (*11336)
Chapman, T. A.; et al. (3708b-c)
Corson, H. H. 13965
Geba, Kazimierz; et al. 6179
Granas, Andrzej; et al. 6179
Heisey, Richard E. 11373,(13923)
Krikorian, Nishan 13966
Wong, R. Y. T. (3707,8641)
Wong, R. Y. T.; et al. (3708b-c)
General topology and its relations to modern analysis and algebra, III (3707)
Symposium on Infinite-Dimensional Topology (1967) 6179,(8641),13965

58B10 *Differentiable and holomorphic questions*

Bejancu, Aurel 8694
Gorban', A. N.; et al. (5494)
Melamed, V. B.; et al. (5494)
Upmeier, Harald (3037)

58B15 *Fredholm structures*

Šerman, P. B. 1279

58B20 *Riemannian, Finsler, and other geometric structures*

Bernšteĭn, I. N.; et al. (3714)
Kanitani, Jōyō 8695-8697
Rosenfel'd, B. I.; et al. (3714)

58B99 *None of the above, but in this section*

Kanitani, Jōyō (1280)
Kreĭn, S. G.; et al. 3741
Kučment, P. A.; et al. 3741
Pankov, A. A.; et al. 3741
Plymen, R. J. (7707)
Zaĭdenberg, M. G.; et al. 3741

58Cxx Calculus on manifolds

58C05 *Real-valued functions*

Costinescu, Olga (7733)
Derridj, M.; et al. 3766
Dolecki, Szymon; et al. (12209)
Epstein, D. B. A. (3617)
Kurcyusz, Stanisław; et al. (12209)
Shiota, Masahiro 3742
Zuily, C.; et al. 3766
Collection: Bompiani, Enrico (7733)
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 3766

58C10 *Holomorphic maps*

Alencar, Raymundo (5830)
Aron, Richard M. (5831)
Dwyer, Thomas 6180
Fedorjuk, M. V. (3006)
Greenfield, Stephen J. (7846)
Kaup, Wilhelm; et al. (10690)
Raboin, Pierre 6181
Rapp, A. (5503)
Upmeier, Harald; et al. (10690)
Proceedings on Infinite Dimensional Holomorphy (7846)
Séminaire Pierre Lelong (Analyse) Année 1974/75 (5503,5831)

58C15 *Implicit function theorems*

Glaeser, G. 8698
Schaeffer, David G. (1850)
Sergeraert, Francis 6182
Zehnder, E. (14001)
Symposium on Infinite-Dimensional Topology (1967) 8698

58C20 *Differentiation theory (Gâteaux, Fréchet, etc.)*

Aronszajn, N. (13562)
Berquier, Françoise (13983)
Citlanadze, K. Ē. 13967
Costinescu, Olga (7733)
Daneš, Josef; et al. 3743
Di Bari, Cristina Maria (7719)
Durdil, Jiří 3744,13968
Durdil, Jiří; et al. 3743
Fedotov, V. P. 8699
Foster, M. J. 11374
Hoàng Tuy (3544)
Kanitani, Jōyō 1280
Krée, Paul (5828)
Renz, Peter L. 1281
Rozenfel'd, A. I. (10233)
Simonnet, Michel 11375,13969
Smoljanov, O. G. 8700
Collection: Bompiani, Enrico (7733)
Esquisses mathématiques, No. 23 13969
Esquisses mathématiques, No. 24 11375,(13983)
Proceedings of the Seminar of the Department of Geometry, No. VII (10223)
Selected problems of mathematics and physics 8699
Séminaire Pierre Lelong (Analyse), Année 1974/75 (5828)

58C25 *Differentiable maps and singularities*

Arnol'd, V. I. 8701
Bierstone, Edward 6183
Chenciner, Alain 8702
Damon, James 6184
Demazure, Michel (13124)
Dorfman, I. Ja. 13970
Dubois, Jean-Guy; et al. 13971,13972
Dufour, Jean-Paul; et al. 13971,13972
Durdil, Jiří (3744)
Ferrari, Aldo; et al. 3745
Gaffney, Terence 8703
Gomozov, Ē. P. 13974
Kamenskiĭ, M. I. 6185
Kučko, L. P. 6186
Kuiper, Nicolaas H. 1282
Lander, Les 11376
Levy-Bruhl, Pierre 8704
Łojasiewicz, S. (585)
Losik, M. V. 8705
Luna, Domingo 11377
Magnus, R. J. (13986)
Mallet-Paret, John 11378
Mather, John N. 13975
Monti Bragadin, Giacomo 3745
Moussu, Robert (3737)
Nehorošev, N. N. 1283
Obolenskiĭ, A. Ju. 11379
Ortega Aramburu, Joaquín M.ª (8297)
du Plessis, Andrew 1284
Poénaru, V. *13976a-d,13977
Reichard, Klaus 3746
Risler, Jean-Jacques (13108)
Rohlin, V. V. 11380
Roth, B. (3399)
Scheerer, Hans 6187
Sergeraert, Francis (6182)
Shiota, Masahiro (3742)
Stanek, Oleg 13971,13972
Tougeron, Jean-Claude 3747,8706
Trotman, D. J. A. 11381
Varčenko, A. N. (12763)
Weinstein, Alan 11382
Wells, G. S. 11383
West, Robert W. 13978
Zakaljukin, V. M. (1294)
Zeeman, E. C. (6909)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 3747
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) 13975
Differential geometry, No. 1 8705
Differentialgeometrie im Großen (Ber. Tagung, Math. Forschungsinst., Oberwolfach, 1969) 11382
Mathematical physics and functional analysis, No. V 6186
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (12763)
Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1968-1969, Fasc. 2 8706
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 8702
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) (13124)
Symposium on Infinite-Dimensional Topology (1967) 1282

58C99 *None of the above, but in this section*

Asada, Akiro 560,1285a-b
Jeanquartier, Pierre 8707
Lascar, B. (3405)
Ovčinnikov, V. I.; et al. 13979
Romanov, V. A. (3404)
Zaĭdenberg, M. G.; et al. 13979

58Dxx Spaces and manifolds of mappings

58D05 *Groups of diffeomorphisms and homeomorphisms as manifolds* [*See also* 22Exx, 57E05.]

Banyaga, A. 1286
Cantor, M.; et al. (4553)
Choquet-Bruhat, Y. 11384
11384
Ebin, D. G.; et al. 13980
Fischer, A.; et al. (4553),13981
Gramain, André (13945)
de la Harpe, Pierre 6188
Herman, M. R. 8708
Ismagilov, R. S. (475,2887)
Lelong-Ferrand, Jacqueline (11237)
Lichnerowicz, André 1287
Marsden, J.; et al. (4553),13980,13981
Mather, John N. (13975)
Moncrief, Vincent (4541)
Ó Murchadha, N.; et al. (4553)
Sergeraert, Francis (6182)
Šneĭberg, I. Ja. 13982
Vigué, Jean-Pierre (7873)
Wallet, Guy (11353)
York, J.; et al. (4553)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 13980
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) (13975)
Differential topology and geometry (Proc. Colloq., Dijon, 1974) 1286,8708
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (13945)

58D10 *Spaces of imbeddings and immersions*

Fathi, A.; et al. (8680)
Gromov, M. L. (1323),8709
Visetti, Y. M.; et al. (8680)
Wall, C. T. C. (11342)
Willmore, T. J. (1138)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 1 (11342)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8709
Topics in differential geometry (in memory of Evan Tom Davies) (1138)

58D15 *Manifolds of mappings* [*See also* 54C35.]

Bancel, Daniel; et al. 11385
Berquier, Françoise 13983
Bourguignon, Jean-Pierre 6189
Cherrier, Pascal (11388)
Chevallier, Dominique 3748,3749
Ehrlich, Paul E. (6022,8715)
Faddeev, L. D.; et al. 6190
Glaeser, G. 8710
Gorlenko, S. V. (1160)
Hamilton, Richard S. 3750
Hughes, Thomas J. R.; et al. (8041)
Kato, Tosio; et al. (8041)
Kuo, Hui Hsiung (5424)
Lacaze, Jacques; et al. 11385
Lukes, Dahlard L. 8711
Marsden, Jerrold E.; et al. (8041)
Mitteau, Jean-Claude (11387)
Prolla, João B. 11386
Reĭman, A. G.; et al. 6190
Smoljanov, O. G. (8700)
Tromba, A. J. 8712
Uhlenbeck, K. 1288
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 8711
Collection: Smirnov, V. I. 6190
Esquisses mathématiques, No. 24 13983
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) (11387)
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 8710

58D99 *None of the above, but in this section*

Fukuda, Takuo (10650)
Halpern, Benjamin (3758)

58Exx Critical point theory {For the finite dimensional case, see 57D70; for variational problems, see 49F15.}

58E05 *Abstract theory (Morse theory, Ljusternik-Schnirelman theory, etc.)*

Berger, Melvyn S. (5541)
Duistermaat, J. J. 13984
Ekeland, Ivar; et al. 3751
Fukui, Takehiro 8713
Klimov, V. S. 1289
Krupka, Demeter 13985
Lasry, Jean-Michel; et al. 3751
Magnus, R. J. 6191,13986
Manes, Adele 13987
Marino, A.; et al. 6192
Morse, Marston 8714
Okudžava, N. O. 6193
Palmore, Julian I. (1760,1761,8725)
Prodi, G.; et al. 6192
Rothe, E. H. 1290
Sotomayor, Jorge 1291
Uhlenbeck, K. (1288)
Collection: Sansone, Giovanni 6192
Ordinary differential equations: 1971 NRL-MRC Conference (5541)
Séminaire Goulaouic-Schwartz 1973-1974: Équations aux dérivées partielles et analyse fonctionnelle 13984
Symposium on Infinite-Dimensional Topology (1967) 1290

58E10 *Application to theory of geodesics*

Duistermatt, J. J.; et al. (11416,13984)
Ehrlich, Paul Ewing 8715
Elżanowski, M. 3752
Eschenburg, Jost-Hinrich; et al. 6194
Gaveau, Bernard; et al. 13988
Guillemin, V. W.; et al. (11416)
Klingenberg, Wilhelm 6195,8716
Mazet, Edmond; et al. 13988
Michel, Dominique 6196
Molčanov, S. A. (1404)
O'Sullivan, John J.; et al. 6194
Otsuki, Tominosuke 8717
Pinsky, Marc (8896)
Tromba, A. J. 6197
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) (11416)
Séminaire Goulaouic-Schwartz 1973-1974: Équations aux dérivées partielles et analyse fonctionnelle (13984)
Steiermärkisches Mathematisches Symposium, Siebentes (Graz, 1975) 8716

58E15 *Application to extremal problems in several variables*

Albrecht, Felix (*3713)
Allard, W. K.; et al. (13694)
Almgren, F. J., Jr. (8420)
Almgren, F. J., Jr.; et al. (13694)
de Andrade, Rubens Leão 8718
Barbosa, J. L.; et al. 1292
do Carmo, M.; et al. 1292
Chichilnisky, G.; et al. (12166)
Grote, J. (2221)
Hermes, Henry 8719
Kalman, P. J.; et al. (12166)
Kannai, Yakar (4582)
Maĭstrovskiĭ, G. D.; et al. 1293
Mitteau, Jean-Claude 11387
Morse, Marston (*8382)
Moulin, Hervé (9703)
Ol'hovskiĭ, Ju. G.; et al. 1293
Rand, David (2154)
Tromba, A. J. (6197)
Economics (*4584)
Forschungsinstitut für Mathematik, ETH. (*3713)
Hamiltonian dynamics in economics (*4584)
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) 11387
Questions on numerical mathematics and computer science (Proc. Res. Sem., Inst. Low Temp. Phys. Engrg., Kharkov, 1975) 1293

58E99 *None of the above, but in this section*

Cherrier, Pascal 11388
Chow, Shui Nee; et al. 3753
Eells, J.; et al. 8720,13989
Fisher, Stephen D. (8396)
Fournier, Gilles; et al. 13989
Hale, Jack K.; et al. 3753
Hermes, Henry 11389
Krupka, Demeter 11390
Mallet-Paret, John; et al. 3753
Nirenberg, L. (1324)
Riddell, R. C. 13990
Schmitt, Klaus (10724)
Wood, J. C.; et al. 8720
Zakaljukin, V. M. 1294
Colloque sur l'Analyse Fonctionnelle, Troisième (Liége, 1970) (1324)
Journées sur la Géométrie de la Dimension Infinie et ses Applications à l'Analyse et à la Topologie (Univ. Claude-Bernard—Lyon I, Lyon, 1975) 13989)
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) (10724)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11389

58Fxx Differentiable dynamic systems {For abstract and symbolical topological dynamics, see 28A65, 34C35, 54H20.}

Hale, Jack K. (*7918)

58F05 *Hamiltonian and other special systems*

Antonevič, A. B.; et al. 3754
de Barros, Constantino M. 13991
Benenti, Sergio 8721
Berezin, F. A.; et al. 1295
Boyer, C. P.; et al. (4376)
Brjuno, A. D. (10756)
Cahen, M. (9379)
Capocaccia, D. 3755
Cattaneo-Gasparini, Ida 11391
Ciampi, A. *8722
Degani, Cattelani F. 13992
Deprit, André 13993
Diliberto, Stephen P. (7925)
Droz-Vincent, Philippe 6198
Dumortier, F.; et al. 11392
Faddeev, L. D.; et al. (6190)
Flato, Moshé; et al. 13994
Fronsdal, Christian (11229)
Gavrilov, N. I. 1296
Herman, M. R. 8723
Jakobson, M. V. 6199
Karpelevič, F. I.; et al. 1295
Kimura, Morishige 13995
Kohler, Robert H. 1297
Kostant, Bertram (12982)
Kracklauer, Aloysius F. 3756
Kričever, I. M. 1298a-b
Krupka, Demeter (11390)
Kummer, Martin (7965)
Lalli, B. S. (5545)
Lichnerowicz, André 1299
Lichnerowicz, André; et al. 13994
Ligon, Thomas; et al. 13996
Magri, F. 13997
Moser, Jürgen K. 13998
Moussu, Robert (3737)
Nakanishi, Nobutada 11393
Nikolenko, N. V. 6200
Ol'šaneckiĭ, M. A.; et al. 13999
Osipov, Ju. S. 8724
Palmore, Julian I. (1760,1761),8725
Peñafiel N., M.; et al. (4376)
Perchik, James (13930)
Perelomov, A. M.; et al. 13999
Plymen, R. J. (7707)
Reĭman, A. G.; et al. (6190)
Rodrigues, Paulo R. 11394
Roşca, Radu (11231)
Rüßmann, Helmut 14000
Schaaf, Manfred; et al. 13996
Sternheimer, Daniel; et al. 13994
Sutton, B. R. (4504)
Takens, F.; et al. 11392
Tulczyjew, Włodzimierz M. 8726,8727
Vey, Jacques (8765)
Vol'pert, Ju. V.; et al. 3754
Voros, A. (8759)
Wünsch, Volkmar (12155)
Zehnder, E. 14001
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (12982)
Collection of articles dedicated to the memory of Academician V. I. Smirnov (6190)
Differential topology and geometry (Proc. Colloq., Dijon, 1974) 8723
Economics (*4584)
Hamiltonian dynamics in economics (*4584)

58F05 *Continued*

Ordinary differential equations: 1971 NRL-MRC Conference (7925)
Topics in differential geometry (in memory of Evan Tom Davies) 1299

58F10 *Stability theory*

Aranson, S. H.; et al. 3757
Bondarcuk, V. S.; et al. 11395,11396
Bowen, Rufus 1300
Brin, M. I.; et al. 6201
Camacho, Cesar; et al. 1301
Conley, C. 11397
Fenichel, Neil 14002
Foster, M. J. (11374)
Franke, John E.; et al. (11402)
Gallavotti, Giovanni (10559)
Grines, V. Z. 6203
Grines, V. Z.; et al. 3757
Halpern, Benjamin 3758
Kinjo, Yoshiyuki 6204
Kramli, A. B. 6202
Kuiper, Nicolaas H.; et al. 1301
Lefschetz, Solomon (7920)
Marcus, Brian 1302
Matsumoto, T. (12393)
Neĭmark, Ju. I. 1303
de Oliveira, M. M. C. 8728
Palis, Jacob; et al. 1301
Pesin, Ja. B.; et al. 6201
Ralston, J. V. 14003
Rand, David (2154)
Ruelle, David; et al. 3759
Sacker, Robert J. 8729
Sacksteder, Richard (6208),11398
Šarkovs'kiĭ, O. M.; et al. 11395,11396
Selgrade, James F.; et al. (11402)
Shub, Mike; et al. 3760
Sullivan, Dennis; et al. (1304),3759
Takens, Floris; et al. 6205
Umanskiĭ, Ja. L. 8730
Wells, John C. 6206
White, Warren; et al. 6205
Williams, R. F.; et al. (1304),3760
Conference on Ergodic Theory and Topological Dynamics (Kibbutz Lavi, 1974) 1302
Dynamical systems, and questions on the stability of the solutions of differential equations 11395,11396
Ordinary differential equations: 1971 NRL-MRC Conference (7920),8729,11397
Recent advances in topological dynamics (Proc. Conf. Topological Dynamics, Yale Univ., New Haven, Conn., 1972; in honor of Gustav Arnold Hedlund) 11398
Recent trends in systems theory (12393)

58F15 *Hyperbolic structures (expanding maps, Anosov systems, etc.)*

Anosov, D. V. 14004
Block, Louis (1305)
Bowen, Rufus 14005
Dani, S. G. (7746)
Franks, John; et al. 11399
Kočergin, A. V. 3761
(Kuznirenko, A. G.) 11400
Moser, J. 11400
Oka, Masatoshi (13882)
Osipov, Ju. S. (8724)
Robinson, Clark 6207
Robinson, Clark; et al. 3762,11399
Ruelle, David 3763
Sacksteder, Richard 3764,6208
Shiraiwa, Kenichi 6209
Spohn, H. (10569)
Sullivan, Dennis; et al. 1304
Walters, Peter (515,2922)
Williams, R. F.; et al. 1304
Williams, Robert; et al. 3762
Collection: Petrovskiĭ, Ivan Georgievič (1901-1973) (I) 11400
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 14004,14005

58F20 *Periodic points and zeta functions*

Afraĭmovič, V. S.; et al. 11401
Block, Louis 1305
Boju, V. 1306
Franke, John E.; et al. 11402
Halpern, Benjamin (3758)
Lewowicz, Jorge 1307
Markley, Nelson G. 8731
Mayer, Dieter H. 6210
Newhouse, S. 6211
Nitecki, Zbigniew 1308
Ruelle, David 8732
Selgrade, James F. 1309
Selgrade, James F.; et al. 11402
Šil'nikov, L. P.; et al. 11401
Dynamical systems (Salvador, 1971) 1308
Seminar on Differential Equations and Dynamical Systems, II (Univ. Maryland, College Park, Md., 1969) 8731

58F99 *None of the above, but in this section*

Abelson, Harold; et al. 3765
Anderson, Boyd 11403
Arnol'd, V. I. 1310
Dobrynskiĭ, V. A. 8733
Dobrynskiĭ, V. A.; et al. 8734
Flato, M.; et al. 8735
Lichnerowicz, A.; et al. 8735
Mallet-Paret, John (11378)
Markus, Lawrence; et al. (13689)
Morimoto, Tohru (8661)
Neumann, Dean A. 14006
Rosenberg, Harold 8736
Ruelle, David (5441)
Šarkovs'kiĭ, O. M.; et al. 8734
Sell, George R.; et al. (13689)
Sigmund, Karl (13037)
Smale, S. (14756-14760)
Stanton, Charles; et al. 3765
Sternheimer, D.; et al. 8735
Sullivan, D. (13915)
Dynamical systems, and questions on the stability of the solutions of differential equations 8733,8734
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 8736
Séminaire de Probabilités, IX (13037)
Series of articles on the theory of singularities of smooth mappings 1310

58Gxx Differential operators on manifolds

58G05 *Elliptic complexes* [*See also* 35N15.]

Andreotti, Aldo *1311
Andreotti, A.; et al. 11404
Danet, Pierre 6212
Derridj, Maklouf; et al. 1312
Fedorjuk, M. V. (3006)
Gaveau, Bernard (13292)
Guillemin, Victor 8737,14007
Hill, C. Denson (13332)
Hill, C. Denson; et al. 11404
Kashiwara, Masaki; et al. (1319a-b,1320)
Kawai, Takahiro 3767,11405
Kawai, Takahiro; et al. (1319a-b,1320)
Kuranishi, Masatake 8738
Łojasiewicz, S.; et al. 11404
MacKichan, B.; et al. 11404
Schempp, Walter 11406
Spencer, D. C. 8739
Sweeney, W. J. 1313
Tartakoff, David S.; et al. 1312
Walsh, Bertram 6213
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8737-8739
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) (13332)
International Symposium on Operator Theory (Indiana Univ., Bloomington, Ind., 1970) 6213
Partial differential equations (Proc. Sympos. Pure Math., Vol. XXIII) 14007
Séminaire Goulaouic-Schwartz 1970-1971: Équations aux dérivées partielles et analyse fonctionnelle 3766
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle (1320)
Whittemore Lectures in Mathematics, 1974 *1311

58G10 *Index theorems and fixed point theorems*

Antonevič, A. B. 8740
Atiyah, M. F. (3768),8741
Cheeger, Jeff (11343)
Dynin, A. S. 8742
Fedosov, B. V. 8743
Gabrièlov, A. M.; et al. (1245)
Gel'fand, I. M.; et al. (1245)
Janas, J. 8744
Kandelaki, T. K. (11333)
Kotake, Takeshi 14008
Kučment, P. A.; et al. (6124)
Losik, M. V.; et al. (1245)
Malliavin, Paul; et al. (13152)
Malliavin-Brameret, Marie-Paule; et al. (13152)
Miščenko, A. S. (1261)
Palamodov, V. P. 8745
Pankov, A. A.; et al. (6124)
Semenjuta, V. N. 11407
Sibner, L. M.; et al. (13150)
Sibner, R. J.; et al. (13150)
Singer, I. M. (8758)
Solov'ev, Ju. P. (8658a-b)
Tsuchiya, Nobuo 11408
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (3768)
Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan (Orsay, 1974) 8741
Contributions to analysis (a collection of papers dedicated to Lipman Bers) (13150)
Mathematical Summer School, Seventh (Kaciveli, 1969) 8740,8742,8745
Non-commutative harmonic analysis (Actes Colloq., Marseille-Luminy, 1974) (13152)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (8758)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11343)

58G15 *Pseudodifferential operators on manifolds*

Bony, J. M.; et al. 1314
Boutet de Monvel, L. 1315,11409,(13291)
Dunau, Jacques 1316
Dynin, A. S. 11410,11411
Eškin, G. I. (13280)
Fedosov, B. V. (8743)
Grigis, Alain (*10828)
Grubb, Gerd 1317
Guillemin, Victor 3769,14009
Helffer, B. 1318,*8746
Ivriĭ, V. Ja. (3171)
Karoubi, Max (11309)
Kashiwara, M. 3770
Kashiwara, Masaki; et al. 1319a-b,1320, 8747,8749,8750,(13113)
Kawai, Takahiro; et al. 1319a-b,1320, 8747,8749,8750,(13113)
Koževnikov, A. N. (10892)
Krée, Paul 11412
Kriščenko, A. P. 11413
Lascar, Richard 14010
Myškis, P. A. 14011
Nielsen, Børge P. D.; et al. 11414
Oshima, Toshio; et al. 8749
Šatalov, V. E. 14012
Sato, Mikio 8748
Sato, Mikio; et al. 8747
Schapira, P.; et al. 1314
Sjostrand, Johannes (13285)
Sternin, B. Ju. 14013
Stetkaer, Henrik; et al. 11414
Strichartz, Robert S. 8751
Taira, Kazuaki (10843)
Treves, François 14014
Yamamoto, Kazuhiro (5612)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (11309)
Colloque International C.N.R.S. sur les Équations aux Dérivées Partielles Linéaires (Orsay, 1972) 3770
Fourier integral operators and partial differential equations (Colloq. Internat., Univ. Nice, Nice, 1974) 3769,11409
Hyperfunctions and pseudodifferential equations 8747
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle 1320,8748
Séminaire Goulaouic-Schwartz 1973-1974: Équations aux dérivées partielles et analyse fonctionnelle (13291)

58G99 *None of the above, but in this section*

Adams, R. D.; et al. (915)
Airault, Hélène 8752
Andreotti, A.; et al. 8754
Andreotti, Aldo 8753
Aronszajn, N.; et al. (915)
Aubin, Thierry 1321
Bedford, Eric; et al. 6214
Bérard-Bergery, Lionel (8518)
Berzin, Robert 1322a-b
Brusencev, A. G. (13333)

58G99 *Continued*

Carroll, Robert W. 11415a-b
Colin de Verdière, Y. 14015
Demidov, A. S. 3771
Donnelly, Harold (1132),8755
Duistermaat, J. J.; et al. 11416
Ehrenpreis, Leon (7703)
Gaveau, Bernard; et al. 8756
Gawędzki, K. 14016
Gilkey, Peter B. (11238)
Gromov, M. L. 1323,(8709)
Guillemin, V. W.; et al. 11416
Hamilton, Richard S. (3750)
Hanna, M. S.; et al. (915)
Hill, C. D.; et al. 8754
Janušauskas, A. 14017
Kashiwara, M. (590)
Kifer, Ju. I. (8898)
Krahnov, A. D. 8757
Łojasiewicz, S.; et al. 8754
Lycagin, V. V. (8691)
Mackichan, B.; et al. 8754
Malliavin, Paul; et al. (11531)
Malliavin-Brameret, Marie-Paul; et al. (11531)
Mazet, Edmond; et al. 8756
Michel, Dominique (6031)
Nikolenko, N. V. (6200)
Nirenberg, L. 1324
Patodi, V. K. 11417
Perelomov, A. M. 1325
Perrizo, William (13883)
Ralston, J. V. (14003)
Šatalov, V. E.; et al. 6215
Šihvatov, A. M. 14018
Singer, I. M. 8758
Šnirel'man, A. I. 1326
Sternin, B. Ju.; et al. 6215
Stredder, Peter 3772
Šugrin, S. M. 3143
Suwa, Tatsuo; et al. 6214
Vaisman, Izu 3773
Voros, A. 8759
Weiner, Joel L.; et al. 13789
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8709)
Colloque sur l'Analyse Fonctionnelle, Troisième (Liège, 1970) 1324
Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2) 11416
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 8758
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11417
Séminaire Bourbaki (1971/1972: Exposés Nos. 400-417) (8518)
Séminaire Bourbaki (1973/1974: Exposés Nos. 436-452) 14015
Séminaire Goulaouic-Lions-Schwartz 1974-1975: Équations aux dérivées partielles linéaires et non linéaires (590)

58H05 Pseudogroups (infinite dimensional Lie groups) and deformations of structures (See also 22E65.)

Bernštein, I. N.; et al. (3714)
Bourguignon, Jean-Pierre (6189)
Boyom, Nguiffo 8760-8762
Ehrlich, Paul E. (6022,8715)
Flato, M.; et al. (8735)
Fuks, D. B. (1246)
Godbillon, Claude (6156)
Higa, Tatsuo 11418
Kolář, Ivan (3740)
Lichnerowicz, A.; et al. (8735)
Lichnerowicz, André 8763
Masuda, Kazuo (6157)
Molino, P. 11419,14019
Nakanishi, Nobutada 8764
Ngô Van Quê; et al. 14020
Nguyen Van Than 3774
Perchik, James (13930)
du Plessis, Andrew (1284)
Rodrigues, A. A. M.; et al. 14020
Rosenfel'd, B. I.; et al. (3714)
Sadykov, I. H. 14021
Shnider, Steven (6162)
Spencer, D. C. (8739),11420
Sternheimer, D.; et al. (8735)
Turiel, Francisco Javier 11421
Vey, Jacques 8765
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (8739)
Manifolds—Tokyo 1973 11420
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (6156)

60—XX PROBABILITY THEORY AND STOCHASTIC PROCESSES

(For additional applications, see 10Kxx, 42A36, 62—XX, 90—XX, 92—XX, 93—XX, 94—XX.)

Daley, D. J.; et al. 11422
Eisenberg, Bennett (5694)
Milne, R. K.; et al. 11422
Moran, P. A. P. (11584)
Bibliography:
Point processes 11422
Statistics (11584)

60-01 *Elementary exposition (research surveys, etc.)*

(Dall'Aglio, G.) *1328
Gerstenkorn, Tadeusz; et al. *3775
Gurskiĭ, E. I. *3776
de Haan, Laurens 14022
Hellwig, Zdzisław *3777
Hogg, Robert V.; et al. (*14169)
Lepage, Yves; et al. *11423
Meschkowski, Herbert (*4881)
Moore, Marc; et al. *11423
Plachky, Detlef; et al. *1329
Pompilj, Giuseppe *1327,*1328
Roy, Roch; et al. *11423
Schmitz, Norbert; et al. *1329
Śródka, Tadeusz; et al. *3775
Tanis, Elliot A.; et al. (*14169)
Wołodźko, Leon 8766

60-02 *Advanced exposition (research surveys, etc.)*

Arató, Mátyás; et al. 14023,14024
Benczur, András; et al. 14023,14024
Hebert, D. J. *6216
Krámli, András; et al. 14023,14024
(Nowak, Krzysztof) *3778
Pergel, József; et al. 14023,14024
Wong, Eugene *3778

60-03 *Historical*

Arató, Mátyás 14025
(Bienaymé, Irenée-Jules) (14132)
Kendall, David G. (14132)

60-06 *Collections of papers; proceedings of conferences*

(Gamkrelidze, R. V.) *6217
(Grigelionis, B.) *3780
(Kagan, A. M.) *11424
Muhamedhanova, R. I. 1330
(Širjaev, A.) *3780
(Wets, Roger J.-B.) *14026
(Zolotarev, V. M.) *11424
Conference on Patterns and Processes in the Plane (Swansea, 1975) 3779
Continuity and stability in problems of probability theory and mathematical statistics *11424
Cybernetics *6217
Itogi Nauki i Tehniki *6217
Mathematical statistics *6217
Modeling identification *14026
Optimization *14026
Probability theory *11424
Probability theory. Mathematical statistics. Theoretical cybernetics, Vol. 13 *6217
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part II *3780
Random processes *3780
Soviet-Japanese Symposium in Probability Theory, Third (Tashkent, 1975) 1330
Stability *11424
Statistics, mathematical *11424
Stochastic systems: modeling, identification and optimization, I (Proc. Sympos., Univ. Kentucky, Lexington, Ky., 1975) *14026

60Axx Axioms, foundations

60A05 *General questions*

Buehler, Robert J. (11593)
Gelbaum, Bernard R. 8767
Kirschenmann, Peter 14027
Mayants, L. S. (2024,2025)
Savage, I. Richard; et al. 3781
(Staël von Holstein, Carl-Axel S.) *8768
Webster, Murray, Jr.; et al. 3781
Concept of probability in psychological experiments *8768
Logical and philosophical foundations of probability (*7163)
Probability (*7163),*8768
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 3781
Proceedings of the Symposium on Exact Philosophy, First (McGill Univ., Montreal, Que., 1971) 14027

60A10 *Probabilistic measure theory*

Dubins, Lester E. (13029)
Hartung, Joachim G. 14028
Kulakova, V. G. 14029
Onicescu, Octav 6218
Romanovič, V. A. 8769

60A99 *None of the above, but in this section*

Jaynes, E. T. 14173

60Bxx Probability theory on algebraic and topological structures

60B05 *Probability measures on topological spaces*

de Acosta, Alejandro 8770
Badrikian, Albert; et al. 8771,*8772
Buldigin, V. V. 6219
Chevet, Simone; et al. 8771,*8772
Čobanjan, S. A. 11425
Csiszár, I.; et al. 8773
Dudley, R. M.; et al. (2905)
Egorov, A. D. (13022)
Feldman, Jacob; et al. (2905,11474)
Fomin, S. V.; et al. 8776
Heidemann, Dirk (10548)
Kumar, A. 8774
Leçam, L.; et al. (2905)
Muštari, D. H. 6220
Rajput, Balram S.; et al. 8773
Schwartz, Laurent (900),8775,*14030
Shimomura, Hiroaki (7738,7739)
Smoljanov, O. G.; et al. 8776
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (900),8771
Les probabilités sur les structures algébriques 8775
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II (11474)
Questions on numerical mathematics and programming 11425

60B10 *Convergence of probability measures, invariance theorems* [*See also* 28A65.]

Antoševskiĭ, Z.; et al. (9017)
Babu, G. Jogesh; et al. 11426
Banys, R. (6272)
Bentkus, R.; et al. (9017)
Berkes, I. 14031
Bolthausen, Erwin 3782
Borodihin, V. M. 3783
Buldigin, V. V. 1331
Csörgő, M.; et al. 3784
Fernandez, Pedro J. 3785
Garling, D. J. H. 11427
Ghosh, M.; et al. 11426
Grigorevskiĭ, N. V.; et al. 14032
Grinblat, L. Š. (11292),11428
Hoffmann-Jørgensen, J. (5421)
Hoffmann-Jørgensen, J.; et al. 11429
Kaigh, W. D. 3786
Kumar, A. 3787
Leonenko, M. M. 11430
Mil'osina, R. I.; et al. (1406)
Nguen Zuĭ Tien 3788
Padgett, W. J.; et al. 11431,*14060
Paulauskas, V. I. 8777,11432,11433
Pavlić, I. (7736)
Pečerskiĭ, E. A. 3789
Pisier, G.; et al. 11429
Révész, P.; et al. 3784
Roller, W. F.; et al. 11431
Schwartz, Laurent (5424a-c)
Šiganov, I. S.; et al. 14032
Sil'vestrov, D. S. (*3811)

60B10 *Continued*

Sil'vestrov, D. S.; et al. (1406),8778
Stroock, D. W. 3790
Taylor, R. L.; et al. (*14060)
Topsøe, Flemming (500,*10546)
Tursunov, G. T.; et al. 8778
Weissman, Ishay 11434
Yoshihara, Ken-ichi 6221
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes (5425a-c)
Strong laws of invariance principle 3784
Topics in probability theory (Sem., Courant Inst. Math. Sci., New York, 1971-1972) 3790

60B15 *Probability measures on groups, Fourier transforms, factorization*

Baldi, Paolo (14107)
Berg, Christian; et al. (8165)
Bougerol, Philippe 14033
Brunel, Antoine; et al. (6288),8779
Christensen, Jens Peter Reus; et al. (8165)
Csiszár, I. 8780
Dennler, G. 1332
Eymard, Pierre; et al. 11435
Faraut, J. (853a-b,5750)
Forst, Gunnar 8781
Girko, V. L. (1350)
Grincevičius, A. 1333
Guichardet, A. (12963)
Hazod, W. 6222
Jajte, R. (1339)
Kuelbs, J. 8782,8783
Liemant, Alfred 8784
Maurer, Juliane 8785
Mels, T. È. 14034
Mori, Toshio (3843)
Mukherjea, A. 11436
Pollard, David (3382)
Ramaswami, S. (8145)
Ressel, Paul; et al. (8165)
Revuz, Daniel; et al. (6288),8779
Roynette, Bernard; et al. 11435
Siebert, Eberhard 1334
Yuan, John (10473)
Analyse harmonique sur les groupes de Lie (Sém. Nancy-Strasbourg, 1973-75) 11435
Collection: Richter, Wolfgang 8784
Les probabilités sur les structures algébriques 8780
Séminaire d'Analyse Harmonique (année 1968/1969) (853a-b,5750)

60B99 *None of the above, but in this section*

Grünbaum, F. Alberto (2681)
Höhle, Ulrich (10553)
Moynihan, Richard 1335
Mukherjea, A.; et al. 11437
Spielman, Jeffrey L. 6223
Tserpes, N. A.; et al. 11437

60C05 Combinatorial probability

Arnold, Barry C. 3791
von Bahr, Bengt (6229)
Bartoszyński, Robert 3792
Bolotnikov, Ju. V.; et al. 3793
Consul, P. C. (3909)
Hunter, David (3802)
Huntington, Raymond J. 8786
Kingston, J. G. 3794
Morgenstern, Dietrich 3795
Mutafčiev, Ljuben R. 8787
Naus, Joseph I.; et al. 6224
Råde, Lennart 11438
Sačkov, V. N. 1336
Sačkov, V. N.; et al. 3793
Sen, Kanwar; et al. (1396a-b)
Sindwani, Sushma; et al. (1396a-b)
Tarakanov, V. E.; et al. 3793
Wallenstein, Sylvan R.; et al. 6224
White, Dennis E.; et al. (2486)
Williamson, S. G.; et al. (2486)
Mathematics and mathematical education (Proc. Conf., Vidin, 1973) 8787

60D05 Geometric probability

Alagar, Vangalur S. 6225
Ambarcumjan, R. V. 8788,14035
Bottema, O. 11439
Davy, Pamela 11440
Feron, Robert 11442
Filipescu, Dumitru 1337
Fortet, R.; et al. 3796
Kallenberg, Olav (11494)
Kambouzia, M.; et al. 3796
Kendall, D. G. 11443
Matheron, Georges 11441
Rogers, C. A. (11173)
Stoka, Marius I. 8789
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 1 (11173)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 8788
Stochastic geometry 11443

60E05 Distributions, characteristic functions

Abramov, V. A. 3797
Arnold, Barry C.; et al. (3904)
Artzner, Ph. 11444,14036
Barakat, Richard 6226
Ben-Tal, A.; et al. 1338
Bohman, Harald (6470)
Cambanis, Stamatis; et al. 8790
Chung, Kai Lai 3798
Cistjakov, G. P. 8791,11445
Consul, P. C.; et al. (9028)
Cuppens, Roger 8792
Daley, D. J. 8793
Dharmadhikari, S. W.; et al. 3799
Fabian, Václav 3800
Fryntov, A. E. 8794,8795
Gupta, R. P.; et al. 3801
Hawkes, John 14038
Hengartner, Walter; et al. 11446
Heyde, C. C.; et al. (14039)
Hochman, E.; et al. 1338
Hudson, William N. 14040
Hunter, David 3802
Isaacson, Dean; et al. (3904)
Jain, G. C.; et al. 3801,(9028)
Jajte, R. 1339
Jogdeo, Kumar; et al. 3799
Johnson, Norman L.; et al. (*6378)
Kalinauskaitė, N. 11447
Kallenberg, Olav (5198)
Khan, I. A. 8796
Kotz, Samuel; et al. (*6378)
Kudina, L. S. 11448
Leslie, J. R.; et al. 14039
Lewis, Toby 11449
Paditz, Ludwig 14041
Paulauskas, V. J. 6227
Peccati, Lorenzo 6228
Riedel, M. 3803
Schmidt, K. 3804
Šeremeta, M. M. 14042
Shanbhag, D. N. 8797
Simons, Gordon; et al. 8790
Steiger, W. L. 14043
Stout, William 8790
Szczepankiewicz, Eugeniusz 14044
Székely, G. J. (7723)
Theodorescu, Radu; et al. 11446
Urbanik, K. 11450
Vinogradov, O. P. (9025)
Whitt, Ward 14045
Collection: Richter, Wolfgang 3803
Mathematical physics and functional analysis, No. V 8791,8794
Séminaire de Probabilités, VI 14036
Séminaire de Probabilités, IX 11444

60Fxx Limit theorems

Taylor, R. L.; et al. *14060

60F05 *Central limit and other weak theorems*

Akahira, Masafuni; et al. (11622,11623)
Aleškevičienė, A. (8853),14046
Allain, Marie-France 11451
Azarin, V. S.; et al. 14047
von Bahr, Bengt 6229
Baĭbikov, V. D.; et al. 14047
Banys, J. 14048
Barakat, Richard 11452
Basu, A. K. 6230
Berkes, I. (14031)
Borisov, I. S. 1340
Butzer, P. L.; et al. 11453
Csörgő, M. 3805,3806
Cuzick, Jack (8821)
Deo, Chandrakant M. 8798
Dharmadhikari, S. W. 1341
Diaconis, Persi (10178)
Dubinskaitė, J.; et al. 11454,11455
Dudley, Richard M. 3807
Dvoretzky, Aryeh 3808,8799
Dziubdziela, W. 6231
Dziubdziela, W.; et al. 8800
Egorov, V. A.; et al. (3963)
Èl'-Fahham, M. M.; et al. 14054
Èppel', M. S.; et al. 6237
Formanov, Š. K.; et al. 14054
Gafurov, M. U. 11456
Giné, M. Evarist 6232
Girko, V. L. 6233
Goldstein, Jerome A. (3496a-b)
Govindarajulu, Z. 6234
Grigorescu, S. I.; et al. 1342,(1391)
Griniuvienė, L. 14049
de Haan, Laurens (14022)
Hahn, L.; et al. 11453
Hecker, H. (11617)
Heyde, C. C.; et al. 14039
Hipp, C.; et al. 11457
Karoblis, A.; et al. 11454,11455
Komekov, B.; et al. 1344
Kopociński, B.; et al. 8800
Kravcov, A. V.; et al. 14047
Kruglov, V. M. 14050
Kruse, Klaus-Dieter 11458
Landers, D.; et al. 14051
Lapinskas, R. 8801
Leahey, W. J.; et al. (12698)
Leonenko, M. M. 6235
Lifšic, B. A. (11510)
Lotov, V. I. 1343
Mandelbrot, Benoit B. 11459a-b
Marušin, M. N. 11460
Masol, V. I. 8802
Meredov, B.; et al. 1344
Michel, R.; et al. 11457
Mil'ošina, R. I. 14052
Mišeikis, F. F. 8803
Mitalauskas, A.; et al. 11461
Muhin, A. B. 1345,6236
Nagaev, S. V.; et al. 6237
Nevzorov, V. B.; et al. (3963)
Nikitin, Ja. Ju. 11462a-b
Norita, Sadataka 8804
Nymann, J. E.; et al. (12698)
Oprisan, G.; et al. (1391)
Paulauskas, V. I. (11433)
Poleščuk, V. S. 3809
Polîščuk, V. S.; et al. 3812
Popescu, Gh. 3810
Popescu, Gh.; et al. 1342
Prakasa Rao, B. L. S. 8805
Rogge, L.; et al. 14051
Rootzén, Holger 6238
Rosenblatt, M. (11472)
Rüschendorf, Ludger 8806
Šahaĭdarova, N.; et al. 6239
Sazonov, V. V. 11463
Schatte, Peter 1346
Schmaal, Albertus; et al. 11464
Šergin, V. V. 14053
Sil'vestrov, D. S. *3811
Sil'vestrov, D. S.; et al. 3812
Siraždinov, S. H.; et al. 14054
Širokova, I. V. 8807
Skvorcov, A. E. (14104)
Stackelberg, Olaf P. (10177)
Stam, Aart Johannes; et al. 11464
Statulevičius, V.; et al. 11461
Šukri, È. M. 8808
Survila, P. (6271)
Takahashi, S. 14055
Takeuchi, Kei; et al. (11622,11623)
Ul'janov, V. V. 3813
Ventner, J. H.; et al. (11624)
Villeneuve, Alain 8809
de Vries, Trienco; et al. 11464
Watson, R. K. 6240
Weissman, Ishay (11434)
de Wet, T.; et al. (11624)
Zakusilo, O. K. 3814-3816
Zolotarev, V. M. (8931)
Zuparov, T. M.; et al. 6239
Actes du Contrès International des Mathématiciens (Nice, 1970), Tome 2 8799,11463
Certain questions on simulation and systems control 6233
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires 3807
Limit theorems of probability theory (Colloq., Keszthely, 1974) 14055
Problems in the theory of probability distributions, III (3963)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 3808
Proceedings of the Conference on Probability Theory, Fourth (Bragov, 1971) 1342
Random processes and statistical inference, No. 5 6239
Strong laws of invariance principle 3805,3806
Theory of random processes, No. 4 (14104)

60F10 *Large deviations*

Amosova, N. N. 1347,3817
Book, Stephen A. 3818
Dorogovcev, A. Ja. 1348
Kim, L. V. 6241a-b
Kim, L. V.; et al. 1349
Krumbhols, W. 14056
Mogul'skiĭ, A. A. 8810
Nagaev, A. V.; et al. 1349
Osipov, L. V. 8811
Prohorov, Ju. V. 8812
Saulis, L.; et al. 3819,3820
Sievers, Gerald L. (3913)

60F10 *Continued*

Statulevičius, V.; et al. 3819,3820
Valtkus, P. S. 3821
Wolf, Werner 14058,14059
Collection: Richter, Wolfgang 3819,14059
Les probabilités sur les structures algébriques 8812
Random processes and statistical inference, No. 3 1349

60F15 *Strong theorems* [*See also* 28A65.]

Aldous, David J. 11465
Amosova, N. N. 8813
Baxter, J. R.; et al. (14124)
Bonet, Eduard 6242
Book, Stephen A.; et al. 6243
Brosamler, G. A.; et al. (14124)
Chen, Robert 6244,8814
Duncan, Richard (8882)
Gaposkin, V. F. 11466
Girko, V. L. 1350
Halász, G.; et al. 11467
Hall, P. G.; et al. 11468
Heyde, C. C.; et al. 11468
Katkauskaitė, A. I. (8887)
Klass, M. J. 3822
Krengel, Ulrich 11469
Krumbholz, W. 14057
Kuelbs, J. (8783)
Major, Péter 3823,3824
Mangano, Gian-Carlo (14067)
Mittal, Yash (1359)
Mori, Toshio 11470
Móricz, F. (847),6245
Müller, D. W. (9988)
Padgett, W. J.; et al. *14060
Petrov, V. V. 14061
Révész, P. 14062
Rogozin, B. A. (11518)
Skorohod, T. A. 8815
Smythe, R. T. 11471
Székely, G. J.; et al. 11467
Taylor, R. L.; et al. *14060
Tomkins, R. J. 3825
Truax, Donald R.; et al. 6243
Varadhan, S. R. S. 1351
Yoshihara, Ken-ichi (6221)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II (9988)
Topics in probability theory (Sem., Courant Inst. Math. Sci., New York, 1971-1972) 1351

60F20 *Zero-one laws*

Nguyen van Ho 14063

60F99 *None of the above, but in this section*

Stčnkgilk, Tatiana 3826
Wegmann, Rudolf 8816

60Gxx Stochastic processes

Cambanis, Stamatis; et al. (4807)
Masry, Elias; et al. (4807)

60G05 *Foundations of stochastic processes*

Doob, J. L. 8817
Dudley, R. M. 3827a-b
Feldman, J. 8818
Greenwood, P.; et al. (3845)
Hersh, R.; et al. (3845)
Kendall, D. G. (11443)
(Parthasarathy, K. R.) 8818
(Schmetterer, L.) 8818
Topsøe, Flemming (5428)
Collection: Brelot, Marcel 8817
Les probabilités sur les structures algébriques 8818
Probabilistic methods in differential equations (Proc. Conf., Univ. Victoria, Victoria, B. C., 1974) (3845)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 3827a
Stochastic geometry (11443)

60G10 *Stationary processes*

Asoo, Yasuhiro 14064
Bedžanjan, R. R. 1352
Benveniste, Albert 6246
Deo, Chandrakant M. (8798)
Dorogovcev, A. Ja.; et al. 14279b
Ellis, Martin H. (2912)
Heiler, Siegfried (*6421)
Kartašov, Ju. V.; et al. 14279b
Miamee, A. G. 8819
Mirzahmedov, M. A.; et al. 8820
Nadkarni, M. G. (8829)
Norita, Sadataka (8804)
Port, Sidney C.; et al. 6247
Ressel, Paul (2909)
Rosenblatt, M. 11472
Rozanov, Ju. A. (8830)
Sarymsakov, T. A.; et al. 8820
Schwarz, Gideon (13036)
Stone, Charles J.; et al. 6247
Thornett, M. L. (14257)
Tjøstheim, Dag (11496)
Wright, A. Larry 6248
Current problems in mathematics, Vol. 3 (8830)
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) (14257)

60G15 *Gaussian processes*

Askey, R.; et al. (10984)
Badrikian, Albert; et al. (8771,*8772)
Bingham, N. H.; et al. (10984)
Blagonravov, L. A. (3962)
Borell, Christer 1353
Carmona, René 14065
Chevet, Simone 14066
Chevet, Simone; et al. (8771,*8772)
Čobanjan, S. A. (11425)
Cuzick, Jack 8821
Davies, P. L. 11473
Dudley, Richard M. (3807,14097)
Etemadi, Nasrollah; et al. (14127)
Feldman, Jacob 11474
Fernique, Xavier, 1354,1355
Geman, Donald (8824)
Geman, Donald; et al. (6251)
Goodman, Victor (11532)
Hida, Takeyuki 6249
Horowitz, Joseph; et al. (6251)
Hwang, J. S. (523)
Jain, Naresh C.; et al. 1356
Judickaja, P. I. 1357
Kallianpur, G.; et al. (8834)
Klein, Ruben 3828
Kozačenko, Ju. V.; et al. 1358
Lindgren, Georg *3829
Macak, Ĭ. K. 3830
Mangano, Gian-Carlo 14067
Marcus, M. B.; et al. 1356
Marcus, Michael B. (8826,14070)
Mittal, Y.; et al. 1360
Mittal, Yash 1359,14068
Oodaira, H.; et al. (8834)
Rudomanov, V. I.; et al. 1358
Ryžov, Ju. M. 8822
Ryžov, Ju. M.; et al. 1361
Salama, H. A.; et al. 1361
Schreiber, Michel (1405)
Sobolevskiĭ, P. I. (5426,13026)
Sofman, L. B. 6250
Solev, V. N. 1362
Tran, Lanh Tat 8823
Wang, Albert T.; et al. (14127)
Yeh, J. (3848)
Ylvisaker, D.; et al. 1360
Zinčenko, N. M. (11533)
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires 1356,(3807,8771)
École d'Été de Probabilités de Saint-Flour, IV-1974 1355
Problems: Theory of probability distributions, III 1362
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 11474
Proceedings of the Symposium on Continuum Mechanics and Related Problems of Analysis (Tbilisi, 1971), Vol. 1 6249
Questions on numerical mathematics and programming (11425)

60G17 *Sample path properties*

Adler, Robert J. 14069
Badrikian, A.; et al. 3831
Bernard, P.; et al. 3831
Buldigin, V. V.; et al. 1363
Chevet, S.; et al. 3831
Garsia, A. M.; et al. (2894)
Garsia, Adriano M. 1364
Geman, Donald 8824
Geman, Donald; et al. 6251
Hasofer, A. M. 8825
Horowitz, Joseph; et al. 6251
Jadrenko, M. I.; et al. 6252,6253
Katkauskaitė, A. I. (8887)
Kozačenko, Ju. V.; et al. 1363,6252,6253
Kurčenko, O. O. 1365
Lindgren, Georg (14211)
Macak, Ĭ. K. 1366,(3830)
Marcus, Michael B. 8826,14070
Rodemich, E.; et al. (2894)
Yoder, Lane (6301)
Colloque International sur les Processus Gaussiens et les Distributions Aléatoires (2894)
Les probabilités sur les structures algébriques 3831
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 8825

60G20 *Generalized stochastic processes*

Evstigneev, I. V. (14166)
Krée, P. 11475
Pfaffelhuber, Ernst (9804)
Ponomarenko, O. Ĭ. (9023)
Séminaire Goulaouic-Schwartz 1972-1973: Équations aux dérivées partielles et analyse fonctionnelle 11475

60G25 *Prediction theory* [*See also* 62M10.]

Al'-Madani, M. G.; et al. 3832
Golinskiĭ, B. L. 8827
Hacet, S. V.; et al. 14071
Jadrenko, M. Ĭ.; et al. 14071
Krasnits'kiĭ, S. M. 8828
Kriete, T. L., III (555)
Lläuter, Henning (4008)
Makagon, A.; et al. 14072
Mirzahmedov, M. A.; et al. (8820)
Mokljačuk, M. P. 3833,14073
Niemi, Hannu 14074
Ponomarenko, O. Ĭ. 3834
Popov, Ju. D. 14075
Rehder, W. (14284)
Rozanov, Ju. A. 8830
Sarymsakov, T. A.; et al. (8820)
Weron, A.; et al. 14072

60G35 *Applications (signal detection, filtering, etc.)* [*See also* 94A05.]

Al'-Madani, M. G.; et al. 14081
Bhattacharya, P. K.; et al. (14122)
Brockwell, P. J.; et al. (14112)
Šatašvili, A. D.; et al. 8835
Šatskih, S. Ja. 8831
Siraja, T. N. 14076
Suciu, Ion; et al. 11476
Valugescu, Ilie; et al. 11476
Weron, A.; et al. 14072
Current problems in mathematics, Vol. 3 8830
Questions of stastistics and of the control of random processes 14071

60G30 *Continuity and singularity of induced measures*

Arató, Mátyás; et al. (14023,14024)
Baklan, V. V. 14077
Benczur, András; et al (14023,14024
Bucan, G. P. 3835,14078
Grigelionis, B. 8832,8833
Gualtierotti, A. F. 6254
Inoue, K. 14079
Jadrenko, M. I. 6255
Kallianpur, G.; et al. 8834
Kanter, Marek 3836
Knopov, P. S.; et al. 14080
Krámli, András; et al. 11477,(14023,14024
Oodaira, H.; et al. 8834
Pergel, József; et al. 11477,(14023,14024
Ryžov, Ju. M. (8822)
Statland, È. S.; et al. 14080
Questions of statistics and of the control of random processes 14078,14080

60G35 *Applications (signal detection, filtering, etc.* [*See also* 94A05.]

Al'-Madani, M. G.; et al. 14081
Bhattacharya, P. K.; et al. (14112)
Brockwell, P. J.; et al. (14112)

60G35 *Continued*

Casal, Ignacio 6256
Dalec'kiĭ, Ju. L.; et al. 8835,11478
Eaves, David (4003)
Fishman, Philip M.; et al. 6257
Goldman, Joel (2319)
Grigelionis, B. (8832,8833),8836
Hatakeyama, Ittatsu; et al. 6258
Jadrenko, M. I.; et al. 14081
Krasnyĭ, L. G.; et al. 11478
Lewis, J. L. 11479
Nishimura, Masafumi; et al. 6258
Outa, Mitsuo; et al. 6258
Piranašvili, Z. A.; et al. 11480
Širjaev, A. N. 8837,11481
Snyder, Donald L.; et al. 6257
Štatland, B. S.; et al. 11478
Sulaberidze, T. G.; et al. 11480
Szpirglas, Jacques 11482
Tjøstheim, D. (11497)
Winkler, Gottfried 6259
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11481
Progress in statistics (European Meeting of Statisticians, Budapest, 1972) 8837
Theory of random processes, No. 4 8835

60G40 *Stopping times*

Barbaini, Franco; et al. 8838
Bartoszyński, Robert 14082
Baxter, J. R. 3837
Baxter, J. R.; et al. (8872)
Berry, Donald A.; et al. 11483
Bismut, Jean-Michel 3838
Bismut, Jean-Michel; et al. 14083
Chacon, R. V.; et al. (8872)
Chen, Robert 8839,8840
Dellacherie, C.; et al. 14084
Dvoretzky, Aryeh 3839
Ežov, I. I.; et al. (8856)
Gaver, Donald P. 8841
Greenwood, Priscilla; et al. 14085
Heath, David C.; et al. 11483
Klass, Michael J. 14086
Meyer, P. A.; et al. 14084
van Moerbeke, Pierre 1367
Monroe, Itrel; et al. 14085
Nikolaev, M. L. 11484
Perng, S. S. (14271)
Protter, Philip 14087
Skalli, Bernard; et al. 14083
Sudderth, William D.; et al. 11483
Šurenkov, V. M.; et al. (8856)
Tkebučava, R. S. 14088
Toscani, Giuseppe; et al. 8838
Uusipaikka, Esa 11485
Zschiesche, Hans-Ullrich 11486
Collection: Neyman, Jerzy 11483
Séminaire de Probabilités, IX 14084

60G45 *Martingale theory*

Babu, G. Jogesh; et al. (11426)
Brunel, Antoine; et al. 3840
Burkholder, D. L. 8842
Darst, R. B. 11487
Davis, Burgess 6260
Davis, M. H. A. 6261,6262
Doléans-Dade, Catherine (1387)
Duncan, T. E. (3844)
Dvoretzky, Aryeh (3839)
Edgar, Gerald A.; et al. 1368,1369,3841
Elliott, Robert J. (8858)
Feigin, Paul David (14285)
Gal'čuk, L. I. 8843
Ghosh, M.; et al. (11426)
Gihman, I. I. 8844
Grigelionis, B. 8845
Hall, P. G.; et al. (11468)
Heyde, C. C.; et al. (11468)
Jacod, Jean 6263
Jacod, Jean; et al. 6264,6265
Kazamaki, Norihiko 14089
Kennedy, Douglas P. 8846
Lane, David A. 8847
Legg, David 8848
Lepingle, Dominique 6266,8849,14090
Mackevičius, V. 8850
Mangano, Gian-Carlo 11488
Maurey, B. 8851
Mémin, Jean; et al. 6264
Meyer, Paul-André (6277),*14091
Mucci, A. G. 8852
Parin, William 14092
Pop-Stojanović, Zoran R. 6267
Pratelli, Maurizio 11489
Schipp, F. (3281)
Ševljakov, A. Ju. 11490
Skorohod, A. V. (1385)
Strauß, W. 6268
Stricker, Christophe 6269,11491,11492
Sucheston, Louis; et al. 1368,1369,3840,3841
Yor, Marc 6270
Yor, Marc; et al. 6265
Zaharopol, Radu 11493
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8842
Séminaire Maurey-Schwartz 1974-1975: Espaces L^p, applications radonifiantes et géométrie des espaces de Banach 8851
Séminaire de Probabilités, IX 11491,11492
Theory of random processes, No. 4 11490

60G50 *Sums of independent random variables*

Aleškevičienė, A. 8853
Grigelionis, B. (11524)
Meredov, B. 14093
Rozanov, Ju. A. (8830)
Scott, Stuart 3842
Survila, P. 6271
Zaharov, A. V. 1370
Current problems in mathematics, Vol. 3 (8830)

60G55 *Point processes, random measures, etc.*

Banys, R. 6272
Cox, D. R.; et al. 1371
El Karoui, Nicole; et al. 1372
Fortet, R.; et al. (3796)
Grigelionis, B. 8854
Kallenberg, Olav 11494
Kambouzia, M.; et al. (3796)
Leadbetter, M. R. 8855
Lepeltier, Jean-Pierre; et al. 1372
Lewis, P. A. W.; et al. 1371
Mecke, J. 14094
Mori, Toshio 3843
Nadkarni, M. G. 8829
Schmidt, V. 1373
Serfozo, Richard F. 11495
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. III 1371,8855

60G99 *None of the above, but in this section*

Chen, Robert 6273
Drozzina, L. V. (5691)
Ežov, I. I.; et al. 8856
Gilat, David; et al. 6274
Lauritzen, Steffen L. (2137)
Murai, Takafumi (10603)
Romanovič, V. A. (8769)
Rotar', V. I. 6275
Smythe, R. T. (11471)
Spielman, Jeffrey L. (6223)
Šurenkov, V. M.; et al. 8856
Tjøstheim, Dag 11496,11497
Weiss, Ernst-August, Jr.; et al. 6274

60Hxx Stochastic analysis

60H05 *Stochastic integrals*

Baklan, V. V. 14095
Bucan, G. P. 14096
Cairoli, R.; et al. 8857
Davis, M. H. A. (6261)
Doléans-Dade, C. 6276
Dudley, R. M. 14097
Duncan, T. E. 3844
El Karoui, Nicole; et al. (1372)
Elliott, Robert J. 8858
Gihman, I. I. 8859
Greenwood, P.; et al. 3845
Hersh, R.; et al. 3845
Jacod, Jean (6263)
Jacod, Jean; et al. (6264)
Kabanov, Ju. M.; et al. 1375
Kailath, Thomas; et al. 1374
Kappos, D. A. 8860
Kuo, Hui Hsiung 3846
Lepeltier, Jean-Pierre; et al. (1372)
Lin, T. F. 8861
Mémin, Jean; et al. (6264)
Meyer, Paul-André 6277,(*14091)
Pellaumail, J. 8862
Ponomarenko, L. L. 11498
Segall, Adrian; et al. 1374
Skorohod, A. V.; et al. 1375
Walsh, John 3847
Walsh, John B.; et al. 8857
Yeh, J. 3848
Yor, Marc 6278
Young, L. C. 3849,8863
Advances in probability and related topics, Vol. 3 8863
Les probabilités sur les structures algébriques 8860
Probabilistic methods in differential equations (Proc. Conf., Univ. Victoria, Victoria, B. C., 1974) 3845
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 3847
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part I 1375
Séminaire de Probabilités, V 6276
Theory of random processes, No. 4 8859
Two Symposia on Probability and Applications 8862

60H10 *Stochastic ordinary differential equations* [*See also* 34F05.]

Adomian, G. A. 1376,8864
Bunke, Helga *11499
Doss, Halim 14098
Gard, T. C.; et al. 14099
Heilmann, O. J.; et al. 1377
Holland, Charles J. 8865
van Kampen, N. G. 1378
van Kampen, N. G.; et al. 1377
Kannan, D.; et al. 14099
Kohler, Werner; et al. 1382
Krylov, N. V.; et al. 14100
Kulinič, G. L. 3850
Lebedev, V. A. 1380,11500
Mahno, S. Ja. 1381,3851
Métivier, Michel; et al. 8866
Papanicolaou, George C.; et al. 1382
Pistone, Giovanni; et al. 8866
Prajneshu 1383
Roos, Jelena 1384
Skorohod, A. V. 1385
Stojanov, Đordan 11501
Sussmann, Héctor J. (7981)
Szpirglas, Jacques (11482)
Terwiel, R. H. 1379
Yamada, T. 1386
Zahar-Itkin, M. H. (13240)
Zvonkin, A. K.; et al. 14100
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part I 3851
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part II 14100
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 8865

60H15 *Stochastic partial differential equations*

Czech, Adam; et al. 8867
Jama, Danuta; et al. 8867,8868
Janiec, Barbara; et al. 8867,8868
Ogawa, Shigeyoshi 11502
Szocińska, Ewa; et al. 8867

60H20 *Stochastic integral equations*

Doléans-Dade, Catherine 1387
Hardiman, Stephen T.; et al. 6279
Lee, Arthur C. H.; et al. 11503
Lepeltier, J.-P; et al. (1403)
Mancougian, M. N.; et al. 6280
Marchal, B.; et al. (1403)
Pachpatte, B. G. 1388
Padgett, W. J. 6281
Padgett, W. J.; et al. 11503
Prakasa Rao, B. L. S. 11504
Prakasa Rao, B. L. S.; et al. 14101
Rama Mohana Rao, M.; et al. 14101
Rao, A. N. V.; et al. 1389,6280
Tsokos, C. P.; et al. 1389,6279,6280
Yang, Wei Chê 8869

60H99 *None of the above, but in this section*

Baklan, V. V. (14077)
Beran, Mark J.; et al. 8870
Bharucha-Reid, A. T. 1390
Bucan, G. P. (8885b)
Castaing, Charles 14102
Erickson, R. V. (6293)
Eršov, M. P. (494)
Keepler, Manuel 11505
McCoy, John J.; et al. 8870
Padgett, W. J.; et al. 14103
Tsokos, Chris P.; et al. 14103
Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part I (494)

60Jxx Markov processes

Dimitrov, Bojan *8871

60J05 *Markov processes with discrete parameter*

Astbury, K. A. (10555)
Baxter, J. R.; et al. 8872
Chacon, R. V.; et al. 8872
Cohn, Harry 11506
Cuculescu, I. 11507
Derriennic, Yves 11508
Galbraith, R. F.; et al. 8873
Grigorescu, S. I.; et al. (1342),1391
Grigorescu, Şerban 11509
Kalašnikov, V. V. 1392
Letac, Gérard 1393
Lifšic, B. A. 11510
Lin, Michael (10563)
Moynihan, Richard (1335)
Narimanjan, S. M. 11511
Oprişan, G.; et al. 1391
Oprişan, Gh. 8874
Polescuk, V. S. (3809)
Polfšcuk, V. S.; et al. (3812)
Popescu, Gh. (3810)
Popescu, Gh.; et al. (1342)
Revuz, D. *3852
Sil'vestrov, D. S.; et al. (3812)
Skvorcov, A. E. 14104
Thomas, J. B.; et al. 14105
Tuominen, P. 6282
Walley, D.; et al. 8873
Wise, G. L.; et al. 14105
Proceedings of the Conference on Probability Theory, Fourth (Bragov, 1971) (1342)
Theory of random processes, No. 4 14104

60J10 *Markov chains*

Anisimov, V. V. 11512,11513
Cohen, Vidal 8875
Cohn, Harry 6283
Ešov, I. I.; et al. 3853
Griffeath, David 6284
Hoang Šum; et al. 3853
Hordijk, Arie; et al. (11690)
Iglehart, Donald L.; et al. (11690)
Kadota, Yoshinobu 6285
Küchler, Uwe; et al. 6286
Mil'ošina, R. I. (14052)
Moore, John B.; et al. 11514
Myers, L. E. 11515
Nielson, G. M.; et al. (13384)
Pakes, A. G. 6287
Pitman, J. W. 3854
Priber, Ulrich; et al. 6286
Ray, W. D. 1394
Riesenfeld, R. F.; et al. (13384)
Schassberger, Rolf; et al. (11690)
Sengupta, S. Sankar; et al. 11514
Weiss, N. A.; et al. (13384)
Wemetz, T. (14200)
Yong, P. L. 14106
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 6287

60J15 *Random walk*

Adelman, Omer (14163)
Anis, A. A.; et al. 8876
Atkinson, Giles (7745)
Baldi, Paolo 14107
Bingham, N. H. (3859)
Brunel, Antoine; et al. 6288,(8779)
Derriennic, Yves (11508)
Eppel', M. S.; et al. (6237)
Erickson, K. Bruce 14108
Etemadi, Nasrollah 11516
Green, P. J. 8877
Greenwood, Priscilla; et al. (14085)
Kennedy, Douglas P. (8846)
Liemant, Alfred (8784)
Lloyd, E. H.; et al. 8876
Migaĭ, N. I.; et al. 1395
Monroe, Itrel; et al. (14085)
Nagaev, S. V.; et al. (6237)
Narimanjan, S. M. (11511)
Nevzorov, V. B.; et al. 1395
Newbould, M. 11517
Pandikov, W.; et al. (777)
Revuz, Daniel; et al. 6288,(8779)
Robbins, Naomi B. 6289
Rogozin, B. A. 11518
Sen, Kanwar; et al. 1396a-b
Sindwani, Sushma; et al. 1396a-b
Slobodenjuk, N. P. 3855
Takano, Katsuo 6290
Veraverbeke, N. 11519
Zajta, A. J.; et al. (777)
Collection: Richter, Wolfgang (8784)

60J20 *Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)*

Četaev, A. N. 14109
Gani, J. 8878
Gheorghe, Florin-Christian; et al. (6416)
Kingman, J. F. C. 8879
Morgan, Byron J. T. 3856,(9029)
Obreja, George; et al. (6416)
Tumolillo, Thomas A. 3857
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) 8878

60J25 *Markov processes with continuous parameter*

Baltrūnas, A. 14110
Constantinescu, F.; et al. 8880
Davidovič, Ju. S.; et al. 6291
Davidson, Rollo 8881
Dudley, R. M. 6292
Duncan, Richard 8882
Gillert, H.; et al. 3858
Hawkes, John (14038)
Jankiewicz, Maria; et al. 11520
(Kendall, D. G.) 8881
Kluge, W.; et al. 3858
Kopociński, B.; et al. 11520
Leviatan, Talma 1397
Macken, Catherine A.; et al. 14111
Masol, V. I. 11521
Norman, M. Frank *11522
Nummelin, Esa (11546)
Sagateljan, K. V. 8883
Sigalotti, Luciano 8884
Šurenkov, V. M.; et al. 6291
Taylor, Howard M.; et al. 14111
Thalheimer, W.; et al. 8880
Winkler, Wolfgang; et al. 3858
Collection: Richter, Wolfgang 3858
Papers arising from a Conference on Stochastic Differential Equations (Univ. Alberta, 1972) 6292
Stochastic analysis 8881

60J30 *Processes with independent increments*

Bhattacharya, P. K.; et al. 14112
Bingham, N. H. 3859
Blanc-Lapierre, André; et al. 11523
Brockwell, P. J.; et al. 14112
Bucan, G. P.; et al. 8885a-b
D'jačkovskiĭ, S. V.; et al. 1398
El Karoui, Nicole; et al. (1372)
Feldman, J. (8818)
Foht, A. I. 1399
Grigelionis, B. 8886,11524
Hendricks, W. J. 14113,14114
Katkauskaitė, A. I. 8887
Kesten, Harry 11525
Kuelbs, J. (8782)
Lepeltier, Jean-Pierre; et al. (1372)
Mogul'skiĭ, A. A. 8888
Monrad, Ditlev 11526
(Parthasarathy, K. R.) (8818)
Pirdžanov, B. 1398
(Schmetterer, L.) (8818)
Suprun, V. M.; et al. 1398
Tortrat, Albert; et al. 11523
Wright, A. Larry (6248)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 11525
Les probabilités sur les structures algébriques (8818)

60J35 *Transition functions, generators and resolvents* [*See also* 47D05.]

Ahlswede, Rudolf; et al. (12364)
Callaert, Herman; et al. (6304)
Engel'bert, G. Ju. 11527
Gács, Péter; et al. (12364)
Grady, Michael Dale 11528
Keepler, Manuel (11505)
Keilson, Julian; et al. (6304)
McKean, H. P. 11529
Mountford, D. 14115
Nollau, Volker 1400

60J40 *Hunt processes*

Benveniste, A. 3860a
Erickson, R. V. 6293
Meyer, P. A. 3860b,3861,3862,8889
Smythe, R. T. 8890
Šur, M. G. 3863
Collection: Brelot, Marcel 3862
Séminaire de Probabilités, VII 3860a-b
Séminaire de Probabilités, VIII 3861,8890
Séminaire de Probabilités, IX 8889

60J45 *Probabilistic potential theory* [*See also* 31-XX.]

Airault, Hélène 14116
Constantinescu, Corneliu; et al. (*7817)
Cornea, Aurel; et al. (*7817)
Dehen, Danièle 8891
Heath, David 14117
Kifer, Ju. I. (8898)
Meyer, Paul-André (10635),14118
Neveu, J. 14119
Taylor, John C. 8892
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 14119
Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) (10635)
Séminaire de Probabilités, VII 14118
Séminaire de Probabilités, IX 14117
Séminaire de Théorie du Potentiel (14e année: 1970/71) 8892
Séminaire de Théorie du Potentiel (15e année: 1972) 8891

60J50 *Boundary theory*

Bronner, François 14120
Brunel, Antoine; et al. (6288)
Dynkin, E. B. 14121
El Karoui, Nicole; et al. *3864
Föllmer, Hans 14122
Rapoport, È. O. 1401
Reinhard, Hervé; et al. *3864
Revuz, Daniel; et al. (6288)
Watanabe, Takesi 14123
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 14121,14123
Séminaire de Probabilités, IX 14122

60J55 *Local time and additive functionals*

Baxter, J. R.; et al. (14124)
Brosamler, G. A.; et al. (14124)
Chung, Kai Lai 8893
El Karoui, Nicole; et al. (*3864)
Getoor, R. K. 3866,8894
Kesten, Harry (11525)
Kingman, J. F. C. 3865
Masol, V. I. 3867
Monrad, Ditlev (11526)
Reinhard, Hervé; et al. (*3864)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 8893,8894,(11525)

60J60 *Diffusion processes* [*See also* 28A65.]

Airault, Hélène (8752)
Allain, Marie-France (11451)
Anderson, Robert F. 1402a-b
Baklan, V. V. (9816)
Baklan, V. V.; et al. (9817)
Baxter, J. R.; et al. 14124
Bensoussan, A.; et al. 8895
Bismut, Jean-Michel (3838)
Brosamler, G. A.; et al. 14124
Dorea, Chang C. Y. 3868
El Karoui, Nicole 11530
Kulinič, G. L. 6294,14125
Lepeltier, J.-P.; et al. 1403
Lions, J. L.; et al. 8895
Malliavin, Paul; et al. 11531
Malliavin-Brameret, Marie-Paul; et al. 11531
Marchal, B.; et al. 1403
Molčanov, S. A. 1404
Pinsky, Marc 8896
Portenko, N. I. 14126
Rapp, A. (5503)
Tudor, Constantin 6295,8897
Zuev, L. A.; et al. (9817)
Probabilistic methods in differential equations (Proc. Conf., Univ. Victoria, Victoria, B. C., 1974) 8895

60J60 *Continued*

Proceedings of the School and Seminar on the Theory of Random Processes (Druskininkai, 1974), Part II 14126
Séminaire Pierre Lelong (Analyse) Année 1974/75 (5503)
Séminaire de Probabilités, IX 11530
Theory of random processes, No. 4 (9816,9817)

60J65 *Brownian motion*

Assouad, P. 6296
Beauzamy, Bernard 6297
Davis, Burgess (10967)
Dudley, R. M. (14097)
Etemadi, Nasrollah; et al. 14127
Goodman, Victor 11532
Hulanicki, A. 6298
Kennedy, Douglas P. (8846)
Khalili, Siamak 14128
Kifer, Ju. I. 8898
Kuo, Hui Hsiung (5424)
Malliavin, Paul 8899
McKean, H. P. 11534
Mil'ošina, R. Ī.; et al. 1406
van Moerbeke, Pierre (1367)
Ponomarenko, L. L. (11498)
Schreiber, Michel 1405
Schwartz, Laurent 6299
Sīl'vestrov, D. S.; et al. 1406
Smith, C. S. 6300
Tran, Lanh Tat (8823)
Uusipaikka, Esa (11485)
Varadhan, S. R. S. (1351)
Wang, Albert T.; et al. 14127
Yoder, Lane 6301
Zinčenko, N. M. 11533
Séminaire Laurent Schwartz 1969-1970: Applications radonifiantes 6296,6299
Topics in probability theory (Sem., Courant Inst. Math. Sci., New York, 1971-1972) (1351)

60J70 *Applications of diffusion theory (population genetics, absorption problems, etc.)*

Aase, Knut 14129
(Cane, Violet) 11536,11537
(Cormack, R. M.) 11536,11537
Gaver, Donald P.; et al. 11535
Holgate, P. (6987)
Kendall, David G. 11537
(Kent, John) 11536,11537
Lehoczky, John P.; et al. 11535
(Lewis, T.) 11536,11537
(Loynes, R.) 11536,11537
(Mardia, K. V.) 11536,11537
Matthews, G. V. T. 11536
(Nelder, J. A.) 11536,11537
(Reuter, G. E. H.) 11536,11537
(Siegerstetter, Jill) 11536,11537
(Soloman, H.) 11536,11537
(Stephens, M. A.) 11536,11537
(Upton, G. J. G.) 11536,11537
(Williams, David) 11536,11537
(Williams, Trevor) 11536,11537

60J75 *Jump processes*

Allain, Marie-France (11451)
Keepler, Manuel (11505)
Kirstein, B. M. 14130
Varaiya, Pravin (2310)
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) (2310)

60J80 *Branching processes (Galton-Watson, birth-and-death, etc.)*

Agresti, Alan 11538
Asmussen, Søren; et al. 8900
Athreya, K. B.; et al. 6302
Badalbaev, I. S. 3869
Beyer, Jan E.; et al. (9007)
(Bienaymé, Irénée-Jules) 14132
Biggins, J. D. 8901
Boĭko, R. V. 6303
Callaert, Herman; et al. 6304
Crump, K. S.; et al. 1407
Doney, R. A. 8902
Fearn, Dean H. 11539
Green, P. J. (8877)
Hering, H. 3870a-b
Hering, Heinrich; et al. 8900
Holte, John M. 6305
Hoppe, Freud M. 6306,8903,14131
Howe, R. B.; et al. 1407
Kaplan, N.; et al. 6302
Keiding, Niels; et al. (9007)
Keilson, Julian; et al. 6304
Kendall, David G. 8904,14132
Kesten, Harry 14133
Küchler, Uwe; et al. (6286)
Lindvall, Torgny 14134
Obretenov, Apostol (4010)
Pakes, A. G. (6287)
Polin, A. K. 6307
Priber, Ulrich; et al. (6286)
Radcliffe, J. 6308
Ryan, Thomas A., Jr. (6314)
Saunders, D. I. 3871
Schuh, H.-J. 11540
Seneta, E. 1408,8905
Simonsen, W.; et al. (9007)
Spătaru, Aurel 8906
Šurenkov, V. M. 1409a-b,8907
Tanny, David 14135
Vatutin, V. A. 8908,14136
Waymire, Edward C. 8909
Weiner, Howard J. 1410,6309,11541
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) 8904
Stochastic processes and related problems, Part 2 3869
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) (6287)

60J85 *Applications of branching processes* [*See also* 90Bxx.]

Beyer, Jan E.; et al. 14138
Boswell, M. T.; et al. 1411
Cormack, R. M.; et al. 14137
(Hinkley, Sidney W.) 14138
Hoem, Jan M.; et al. 11542
Jílek, M. 8910
Keiding, Niels; et al. 11542,14138
Macdonald, P. D. M. (2246)
Newton, J.; et al. 14137
Patil, G. P.; et al. 1411
Tognetti, Keith (2253)
Tsokos, Chris P. 14139
(Tsokos, Chris P.) 14138
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) (2246)
Stochastic point processes: statistical analysis, theory, and applications 1411

60J99 *None of the above, but in this section*

Bârză, Ioana; et al. 6310,6311
Iosifescu, Marius (5163)
Onicescu, Octav; et al. 6310,6311
Storoženko, V. O. (9229)

60Kxx Special processes

Berezovskiĭ, B. A.; et al. (2172)
Sudbury, Aidan 14168
Travkin, S. I.; et al. (2172)

60K05 *Renewal theory*

Blanchard, François (5436)
Cohen, J. W. (*8917)
Gupta, Ramesh C. (14184)
Kopociński, Bolesław 11543
Mohan, N. R. 6312
Mori, Toshio (3843)
Porath, Günter (13509)
Råde, L.; et al. 3872
Rogozin, B. A. 8911
Rosenlund, S. I.; et al. 3872

60K10 *Applications (reliability, demand theory, etc.)*

Balagurusamy, E.; et al. (12189)
Fourcade, G. M. 8912
Gaver, D. P. 6313
Konev, V. V. (9643)
Kopociński, Bolesław (*11543)
Kr"steva, Marija; et al. (12191)
Miller, Douglas R. 3873
Misra, K. B.; et al. (12189)
Obretenov, Apostol; et al. (12191)
Samuels, S. M. 1412
Stochastic point processes: statistical analysis, theory, and applications 6313

60K15 *Markov renewal processes, semi-Markov processes*

Bokučava, I. V. 14140
Burman, David 3874
Čerenkov, A. P. 11544
Çinlar, Erhan 1413
Evers, Thomas 11545a-b
Gillert, H.; et al. (3858)
Hordijk, Arie; et al. (11690)
Iglehart, Donald L.; et al. (11690)
Janssen, Jacques 14141
Kluge, W.; et al. (3858)
Koroljuk, V. S.; et al. *8913
Neuts, Marcel F. 14142
Newbould, M. (11517)
Nollau, Volker; et al. 11545a-b
Nummelin, Esa 11546
Ryan, Thomas A., Jr. 6314
Schassberger, Rolf; et al. (11690)
Semenov, A. T. 3875
Sīl'vestrov, D. S. (*3811)
Šurenkov, V. M. 8914
Takács, Lajos (11568)
Turbin, A. F.; et al. *8913
Tweedie, Richard L. 14143
White, Chelsea C. (4676)
Winkler, Wolfgang; et al. (3858)
Zaslavskiĭ, A. E. 6315
Collection: Richter, Wolfgang (3858)

60K20 *Applications of Markov renewal processes (reliability, queueing networks, etc.)*

(Barlow, Richard E.) (*11709)
(Birnbaum, Z. W.) (*11709)
Çinlar, Erhan (1413)
(Fussell, Jerry B.) (*11709)
Gaver, Donald P. (8841)
Koroljuk, V. S.; et al. (*8913)
Nakagawa, Toshio; et al. (12196)
Osaki, Shunji; et al. (12196)
(Singpurwalla, Nozer D.) (*11709)
Turbin, A. F.; et al. (*8913)
Collection: Birnbaum, Z. W. (*11709)
Conference on Reliability and Fault Tree Analysis (Univ. California, Berkeley, Calif., 1974) (*11709)
Fault tree analysis (*11709)
Reliability and fault tree analysis (Conf., Univ. California, Berkeley, Calif., 1974) (*11709)
System reliability (*11709)

60K25 *Queueing theory*

Abol'nikov, L. M.; et al. 6316
Abramov, A. H.; et al. 1414
Aleksandrov, A. M.; et al. 11548
Aliev, T. M. 6317
Allen, A. O. 14144
Andersen, Kim 11549
Batra, D. P.; et al. 8915
Bhandiwad, R. A.; et al. 8929
Boguslavskiĭ, L. B. 8916
Boxma, O. J. 14145
Chaudhry, M. L.; et al. 6318
Cohen, J. W. 1415,*8917
Danieljan, È. A. *11552
Danieljan, È. A.; et al. 3876,11550,11551
Dimitrov, Bojan; et al. 14146,14147
Dimitrov, Bojan N. 1416,11553
Dmitriev, V. I.; et al. 11558
Egipko, V. M. 11547
Ežov, I. Ī.; et al. 8928,11554
Faĭnberg, M. A. 6319
Fedotkin, M. A. 14148
Feofanov, G. N.; et al. 3883
Fleischmann, Klaus 1417
Gabrovski, I. Z.; et al. 11554
Gani, J. 1418
Gaur, K. N. 8918
Gaver, Donald P.; et al. (11535)
Gelenbe, E.; et al. (14416)
Georganas, Nicolaos D. 11555
Glickman, Theodore S. 11556
Gorcev, A. M. 14149
Guljaev, V. I.; et al. 11548,11557
Gupta, P. K. 6320
Hadidi, Nasser 6321
Harrison, J. Michael; et al. 14150
Heffes, Harry 1419
Hordijk, A.; et al. 14151
Il'ze, H.; et al. 11558

60K25 *Continued*

Ivanenko, O. D.; et al. 11557
Ivanov, G. A.; et al. 3876
Ivnickiĭ, V. A. 8920
Ivnickiĭ, V. A.; et al. 8919
Jankiewicz, Maria; et al. (11520)
Jaremčuk, O. P.; et al. (6933,6934)
Jasnogorodskiĭ, R. M.; et al. 6316
(Joffe, Ruth) (*2162)
Kabalevskiĭ, A. N.; et al. 11572
Kalašnikov, V. V. (1392)
Kaplan, Norman 1420
Karapenev, H. K. 11559
Karapenev, Hristo 14146,14147
Kashyap, B. R. K.; et al. *6322
Kasumov, A. B.; et al. 8919
Kawashima, Takeshi 14152
Kelly, F. P. 3877,3878
Kennedy, Douglas P. (8846)
Köllerström, J. 14153
König, D.; et al. 11560
Kopociński, B. 11561
Kopociński, B.; et al. (11520)
Koroljuk, V. S.; et al. (*8913)
Kotzurek, M.; et al. 14154
Krupin, V. G. 11562
Kuhta, T. K.; et al. 3879
Lapko, A. A. 8921
Lehoczky, John P.; et al. (11535)
Lemoine, Austin J.; et al. 14150
Linnik, I. Ju. 11563
Macken, Catherine A.; et al. (14111)
Madan, K. C. 8922
Miškoĭ, G. K. 14155
Mitchell, Bill (6448)
Miyazawa, Masakiyo 6323
Mova, V. V.; et al. (6933,6934)
Muntz, R. R.; et al. (14416)
Nesterova, T. N.; et al. 6324
Nisnevič, L. B.; et al. 6324
Oakes, David 11564
Obretenov, Apostol 14156
(Orgler, Yair E.) (*2162)
Perrakis, Stylianos; et al. 3881
Petkov, Evstati 14157
Pittel, B. G. 8923
Pogosjan, I. A. 6325
Poljak, D. G. 6326
Przybycin, Zygmunt 11565
Purdue, Peter 11566
Rosenlund, Stig I. 3880,6327,14158,14159
Runge, W. 6328,8924
Rzaeva, U. S.; et al. 1414
Sadovskiĭ, A. L. 8925
Šahbazov, A. A. 8926,8927
Sahin, Izzet; et al. 3881
Sankaranarayanan, G.; et al. 1421
Schmidt, Gerd 6329
Schmidt, V.; et al. 11560
Sharma, S. D. 3882
(Shlifer, Eliezer) (*2162)
Smirnova, T. S.; et al. 3883
Srivastava, H. M.; et al. *6322
Stoyan, D. 14160
Stoyan, D.; et al. 11560,14154
Šurenkov, V. M.; et al. 8928
Suyambulingom, C.; et al. 1421
Švab, N. D.; et al. 3879
Švidkaja, G. D. 11567
Takács, Lajos 11568,11569
Tašmanov, H. T. 14161
Taylor, G. C. 11570
Taylor, Howard M.; et al. (14111)
Teghem, J., Jr. 11571
Templeton, J. G. C.; et al. 6318
Thiruvengadam, K.; et al. 8915
Tijms, H. C.; et al. 14151
Turbin, A. F.; et al. (*8913)
Veraverbeke, N. (11519)
Vigman, B. A.; et al. 8928
Volkovinskiĭ, M. I.; et al. 11572
Williams, A. C.; et al. 8929
Wolff, Ronald W.; et al. 8930
Wrightson, Charles W.; et al. 8930
Zaharin, O. M.; et al. 11554
Zemljanoĭ, N. S.; et al. 11550,11551
Zolotarev, V. M. 8931
International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973) (*2162)
Management sciences (*2162)
Mixed boundary value problems and questions of mathematical simulation (6933,6934)
Operational research '75 (Proc. Seventh IFORS Internat. Conf., Tokyo, 1975) 11571
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. III 1418
Proceedings of the International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973), Vol. II (*2162)

60K30 *Applications (congestion, allocation, storage, traffic, etc.)* [*See also* 60J80.]

Allen, A. O. 14162
Anis, A. A.; et al. (8876)
Barnett, A. (4620)
Bhattacharya, P. K.; et al. (14112)
Brockwell, P. J.; et al. (14112)
Chow, We Min 8932
Gani, J. (1418)
Guess, H. A. 11573
Halfin, S. 6330
Lloyd, E. H.; et al. (8876)
Morse, P. M. 6331
O'Donovan, T. M. (6935)
Rath, John H. 11574
Solomon, Herbert; et al. 3884
Srinivasan, S. K.; et al. 11575
Venugopalacharyulu, N.; et al. 11575
Wang, Peter C. C.; et al. 3884
Papers on system performance evaluation 8932
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. III (1418),3884
Studi di probabilità, statistica e ricerca operativa in onore di Giuseppe Pompilj 6331

60K35 *Interacting random processes, statistical mechanics type models*

Adelman, Omer 14163
Basis, V. Ja. 14164
Četaev, A. N. (14109)
Ciesielski, Z. 14165
Evstigneev, I. V. 14166
Föllmer, Hans (14122)
Gercik, V. M. (6826)
Holley, Richard 1422
Kozlov, O. K. 3885
Liggett, Thomas M. 6332
Maravall Casesnoves, Darío 1423
Nasr, Ali 3886
Nguyen Xuan Xanh; et al. 11576
Pickard, D. K. (11626)
Pinsky, Mark A. (10900)
Schürger, K.; et al. 6333
Schwartz, Diane 6334
Slawny, J. (12075)
Spitzer, Frank 3887
Tăutu, P.; et al. 6333
Zessin, Hans; et al. 11576
Probability--winter school (Proc. Fourth Winter School, Karpacz, 1975) 14165
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. III 1422
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 3887
Séminaire de Probabilités, IX (14122)

60K99 *None of the above, but in this section*

Abakuks, Andris 14167
Diggle, Peter J. (9727)
Kadosch, M. (6932)
Karr, Alan F. 6335
Ludwig, Donald (6994)
Moran, P. A. P. 11577
Saunders, Roy 8933
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11577

62—XX STATISTICS

Bakker, T. 11578
Lancaster, H. O. 3888,11579-11583
Moran, P. A. P. 11584
Bibliography:
Statistical bibliographies 3888,11579-11583
Statistics 11584
Statistics teaching 11578

62-01 *Elementary exposition (collegiate level)*

Dantas, Carlos Alberto Barbosa *6336
Gurskiĭ, E. I. (*3776)
Hellwig, Zdzisław (*3777)
Hogg, Robert V.; et al. *14169
Johnson, Norman L.; et al. *11585
Leone, Fred C.; et al. *11585
Meschkowski, Herbert (*4881)
Niedokos, Edward; et al. *3889
Oktaba, Wiktor; et al. *3889
Tanis, Elliot A.; et al. *14169

62-02 *Advanced exposition research surveys, etc.)*

(Beljaev, Ju. K.) *8934b
(Čepurin, E. V.) *8934b
Hoyle, M. H. 11586,11587
(Linnik, Ju. V.) *3890
Norden, R. H. 11588,11589
Schmetterer, L. *3890
Zacks, Shelemyahu *8934a-b
Bibliography:
Maximum likelihood estimation 11588
Transformation of data 11586,11587

62-03 *Historical*

Arató, Mátyás (14025)
Cunliffe, Stella V. 3891,3892
(Daniels, H. E.) 3891
(Finney, D. J.) 3891
Matusita, Kameo 14170
Pratt, John W. (3945)

62-04 *Explicit machine computation and programs (not the theory of computation of programming)*

Lorens, J. A.; et al. (1576)
Hemmerle, W. J.; et al. (1576)

62-06 *Collections of papers; proceedings of conferences*

(Bancroft, T. A.) *6337
(Brown, Susan Alice) *6337
(Gamkrelidze, R. V.) (*6217)
(Gupta, Shanti S.) *11591
(Kagan, A. M.) (*11424)
(Moore, David S.) *11591
(Odell, Patrick L.) *11590
(Snedecor, George W.) *6337
(Zolotarev, V. M.) (*11424)
Collection: Snedecor, George W. *6337
Conference on Patterns and Processes in the Plane (Swansea, 1975) (3779)
Continuity and stability in problems of probability theory and mathematical statistics (*11424)
Cybernetics (*6217)
Decision theory *11591
Itogi Nauki i Tehniki (*6217)
Mathematical statistics (*6217)
Probability theory (*11424)
Probability theory. Mathematical statistics. Theoretical cybernetics, Vol. 13 (*6217)
Remote sensing *11590
Stability (*11424)
Statistical decision theory and related topics, II (Proc. Sympos. Purdue Univ., Lafayette, Ind., 1976) *11591
Statistical papers in honor of George W. Snedecor *6337
Statistics, mathematical (*11424)
Symposium on statistical decision theory and related topics. II (Purdue Univ., Lafayette, Ind., 1976) *11591

62Axx Foundations

62A05 *Invariance and group considerations*

(Barnard, G. A.) 14172
(Efron, B.) 1424
Fraser, D. A. S. 1424
(Good, I. J.) 14172
(Hartigan, J. A.) 14172
(Hogg, Robert V.) 1424
(Lindley, D. V.) 14172
Okuma, Akimichi 3893
Pedersen, J. G. *14171
Quesada Paloma, Vicente; et al. 11592
Reiser, B. 8935
del Río Bueno, Manuel; et al. 11592
Rüschendorf, Ludger 3894
Venables, W. (3971)
Villegas, C. 14172
Foundations of statistical inference (Proc. Sympos., Univ. Waterloo, Waterloo, Ont., 1970) 14172

62A10 *The likelihood approach*

(Barnard, G. A.) 6338
(Barndorff-Nielsen, O.) 6338
(Basu, D.) 6338
(Cox, D. R.) 6338
(Dempster, A. P.) 6338
(Edwards, A. W. F.) 6338

62A10 *Continued*

(Lauritzen, S. L.) 6338
(Martin-Löf, P.) 6338
Williams, E. J. (3947)
Discussion on likelihood 6338
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) (3947)
Proceedings of Conference on Foundational Questions in Statistical Inference (Aarhus, 1973) 6338

62A15 *The Bayesian approach*

(Barnard, G. A.) (14172)
Box, George E. P.; et al. (*6362)
Buehler, Robert J. 11593
(Good, I. J.) (14172)
(Hartigan, J. A.) (14172)
(Lindley, D. V.) (14172)
Matsubara, Nozomu 8936
Tiao, George C.; et al. (*6362)
Villegas, C. (14172)
Yamada, Keigo 11594
Foundations of statistical inference (Proc. Sympos., Univ. Waterloo, Waterloo, Ont., 1970) (14172)

62A99 *None of the above, but in this section*

(Abildgård, F.) (1447)
Barnard, G. A. 11595
(Barnard, G. B.) (1447)
(Barndorff-Nielsen, O.) (1447)
Barra, J. R. 11596
(Bartholomew, D. J.) 11595
(Bartlett, M. S.) 11595
(Basu, D.) (1447)
(Cox, D. R.) (1447),11595
(Dempster, A. P.) (1447)
(Edwards, A. W. F.) (1447)
(Godambe, V. P.) 11595
(Good, I. J.) 11595
(Kalbfleisch, J. D.) (1447)
(Kempthorne, O.) 11595
Lépine, D.; et al. 3895
(Lindley, D. V.) 11595
Martin-Löf, P. (1447)
(Plante, A.) 11595
(Rao, C. R.) 11595
(Rasch, G.) (1447)
Robinson, G. K. (3946)
Rouanet, H.; et al. 3895
(Sprott, D. A.) (1447)
Foundations of statistical inference (Proc. Sympos., Univ. Waterloo, Waterloo, Ont., 1970) 11595
Proceedings of Conference on Foundational Questions in Statistical Inference (Aarhus, 1973) (1447)
Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1967-1968 11596

62Bxx Sufficiency

62B05 *Sufficient statistics and fields*

Heckendorff, Hartmut 14174
Klebanov, L. B. 8937
Kudō, Hirokichi 14175
Scheaffer, Richard L. 14176

62B10 *Statistical information theory*

(Abildgård, F.) (1447)
Bad, Monica (1458)
(Barnard, G. B.) (1447)
(Barndorff-Nielsen, O.) (1447)
(Basu, D.) (1447)
(Cox, D. R.) (1447)
(Dempster, A. P.) (1447)
(Edwards, A. W. F.) (1447)
Kagan, A. M. (1454)
(Kalbfleisch, J. D.) (1447)
MacQueen, James; et al. 1425
Marschak, Jacob; et al. 1425
Martin-Löf, P. (1447)
Ponssard, Jean-Pierre (11597)
(Rasch, G.) (1447)
(Sprott, D. A.) (1447)
Proceedings of Conference on Foundational Questions in Statistical Inference (Aarhus, 1973) (1447)

62B15 *Comparison of experiments*

Ibarrola Muñoz, María del Pilar; et al. 14177
Le Cam, L. 3896
Ponssard, Jean-Pierre 11597
Quesada Paloma, Vincente; et al. 14177
Zaheeruddin 3897
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 3896

62Cxx Decision theory {For game theory, see 90Dxx.}

Rao, C. Radhakrishna (8988)

63C05 *General considerations*

Bühlmann, H.; et al. (*12227)
Ibarrola Muñoz, María del Pilar; et al. 14177
Loeffel, H.; et al. (*12227)
Nievergelt, E.; et al. (*12227)
Quesada Paloma, Vicente; et al. (14177)
Ponssard, Jean-Pierre (11597)
Ríos, Sixto 6339
Takeuchi, Yu 14178

62C07 *Complete class results*

Birkes, David; et al. (6386)
Brown, L. D.; et al. 3898
Cohen, Arthur; et al. 3898
Olsen, Anthony; et al. (6386)
Seely, Justus; et al. (6386)
Strawderman, W. E.; et al. 3898

62C10 *Bayesian problems; characterization of Bayes procedures*

Bol'šev, A. I.; et al. 6340
Doksum, Kjell A. 14179
Goldstein, M. 1426
Hollander, Myles; et al. (1502)
Korwar, Ramesh M.; et al. (1502)
Lom, R. S.; et al. 6340
Roudier, J. 8938
Wallstan, Thomas S. (9737)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 14179

62C15 *Admissibility*

Blyth, Colin R.; et al. 3899
Brown, C. C. 3900
Brown, Lawrence D.; et al. 8939
Fox, Martin; et al. 8939
Gili, Adolfo 3902
Johnson, Bruce McK. 6341
Linnik, Ju. V.; et al. (6358)
Ram Behari 1122
Roberts, Donald M.; et al. 3899
Ruhin, A. L.; et al. (6358)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 3899
Studi in memoria di Ettore Pezzoli, III 3902

62C25 *Compound decision problems*

Baskerville, J. C.; et al. 8940
Deely, J. J.; et al. 1427
van Houwelingen, J. C. 11598
Lwin, T.; et al. 11599
Lwin, Thaung (1464)
Maritz, J. S.; et al. 11599
Rao, C. Radhakrishna 14180
Solomon, D. L.; et al. 8940
Susarla, V. 6342
Zimmer, W. J.; et al. 1427

62C99 *None of the above, but in this section*

Baron, David P. 6343
Brown, C. C. 3901
Bühlmann, Hans (4012)

62D05 Sampling theory, sample surveys

Abi Farah, Anis 1428
(Barnard, G. A.) 11600
Basu, D. 11600
Bracha, Czesław 11601
Bühler, W.; et al. 1429
Burmeister, Leon F. 1430
Chesson, Jean 14181
Coopersmith, Lewis; et al. 8941
(Cox, D. R.) 6344
Deutler, T.; et al. 1429
Drane, Wanzer 11602
Federer, W. R.; et al. 11603
(Godambe, V. P.) 6344,11600
(Good, I. J.) 6344
(Hájek, J.) 11600
Henna, Jõgi (14207)
Jones, Douglas H.; et al. 8941
(Koop, J. C.) 6344,11600
Leysieffer, Frederick W.; et al. 14182
(Neyman, J.) 6344
Novikov, S. G. 14183
Pathak, P. K. 1431
Raghavarao, D.; et al. 11603
Rosén, Bengt 8942
(Royall, R.) 11600
Royall, Richard M. 6344
Särndal, Carl Erik 1432
Serfling, R. J. (8976)
Singh, M. P.; et al. 1433
Singh, Rajinder; et al. 11603
Srinath, K. P. 8943,8944
Srinath, K. P.; et al. 1434
Srivenkataramana, T.; et al. 1434
Tessier, R.; et al. 1433
Thomsen, I. 3903
Warner, Stanley L.; et al. 14182
Yanagawa, Takashi 11604
Foundations of statistical inference (Proc. Sympos., Univ. Waterloo, Waterloo, Ont., 1970) 6344,11600
Proceedings of the Annual Meeting of the American Statistical Association, Social Statistics Section (St. Louis, Mo., 1974) 1430
Proceedings of the Prague Symposium on Asymptotic Statistics (Charles Univ., Prague, 1973), Vol. I 8942
Proceedings of the Symposium on Statistics and Related Topics (Carleton Univ., Ottawa, Ont., 1974) 1433

62Exx Distribution theory

62E10 *Characterization and structures theory*

Ahsanullah, M. 11605
Arnold, Barry C.; et al. 3904,11606
Bondesson, Lennart 3905
Boswell, M. T.; et al. 6345
Cifarelli, D. Michele; et al. (8959)
Consul, P. C. 11607
Dao Hyu Ho 1435,11608
Geertsema, J. C.; et al. 14265
Ghosh, Malay; et al. 11606
Gupta, Ramesh C. 14184
Isaacson, Dean; et al. 3904
Ishii, Goro (8961)
Joshi, V. M. (1453)
Klamkin, Murray S.; et al. 3908
Klebanov, L. B. (8937)
Klebanov, L. B.; et al. 3906
Lobaskina, N. V.; et al. 8946
Melamed, I. A.; et al. 3906
Mohanty, N. C. 11609
Nagaraja, H. N. 3907
Nash, David; et al. 3908
Patil, G. P.; et al. 6345
Pisarewska, Helena 6346
Rao, C. Radhakrishna 8945,(14180)
Regazzini, Eugenio; et al. (8959)
Romanovič, V. A.; et al. 8946
Swanepoel, J. W. H.; et al. 14265
Swartz, G. Boyd 1436
Wolfe, Douglas A. 14185
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 8945

62E15 *Distribution of statistics*

Broffitt, James D.; et al. 6347
Carter, R. A. L. (4020)
Chen, Tien Wen; et al. 8947
Cohen, Joel E. 8948
Consul, P. C. 3909
Davenport, James M. 11610
David, F. N. (4016,4017)
Dent, Warren T.; et al. 6347

62E15 *Continued*

Fauchon, Jean; et al. 14186
Good, I. J. 11611
Grosswald, E. (14037)
Guerrieri, Giuseppe 11612
Gupta, Devendra 14187
Herbin, Gérard; et al. 14186
Hill, Bruce M. 14188
Horn, Der Kie; et al. 8947
Hutcheson, Kermit; et al. 14190
Jaiswal, M. C. 1437
Johnson, Norman L.; et al. (*6378)
Kotz, Samuel; et al. (*6378)
Likeš, J.; et al. 11613
Lingappaiah, G. S. 1438,8949,14189
Martineau, Gérard; et al. 14186
Mitra, Sujit Kumar 3910
Naus, Joseph I.; et al. (6224)
Nedělka, S.; et al. 11613
Podolski, Horst 6348
Prescott, P. 8950
Rizzi, Alfredo 1439
Ruben, Harold 6349
Sansing, R. C. 11614
Sawicki, Tadeusz; et al. 11615,11616
Sobich, Lucja; et al. 3911
Stoka, Marius I. 1440
Sugg, Merritt N.; et al. 14190
Suzuki, Giitiro 14191
Szczepankiewicz, Eugeniusz; et al. 11615,11616
Szynal, Dominik; et al. 3911
Wallenstein, Sylvan R.; et al. (6224)
Wolfe, Douglas A. (6374)
Collection: Teng, Tsing Houa 8947
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I (4016,4017)

62E20 *Asymptotic theory*

Akahira, Masafumi (3923)
Akahira, Masafumi; et al. 11622,11623
Anderson, T. W. (11715)
Anderson, T. W.; et al. (3977)
Borovskih, Ju. V. 8951
Čibisov, D. M. 14192
Csörgő, Sándor 8952
Dorogovcev, A. Ja. 3912,(6367)
Erickson, R. V.; et al. (1470)
Gideon, Rudy A.; et al. 14193
Gurland, John; et al. 14193
Gusev, S. I. 1441
Has'minskiĭ, R. Z.; et al. (1452)
Hecker, H. 11617
Hipp, C.; et al. 8953
Hurt, Jan 6350
Ibragimov, I. A.; et al. (1452)
Jensen, D. R. 6351
Johnson, Richard A. (6354)
Koul, H. L.; et al. (1470)
Lee, P. A. 11618
MacNeill, Ian B. (14199)
Martynov, G. V. 6352
Matsuda, Tadayuki (14216)
Matsunawa, T. 1442
Michel, R.; et al. 8953
Nikitin, Ja. Ju. (1472)
Norita, Sadataka (14230)
Penkov, B. I. (3958)
Rohr, R. J. (9032)
Rosén, Bengt (8942)
Rouault, Alain 11619,11620
Rüschendorf, Ludger (8806)
Samuel-Cahn, Ester 1444
Sargan, J. D. (4026,4027)
Schuster, Eugene F. 6353
Sen, Pranab Kumar 11621
Shorack, Galen R. (3965)
Sievers, Gerald L. 3913
Soms, Andrew P. 14194
Strasser, Helmut 1445
Takeuchi, Kei; et al. 11622,11623
Taylor, John B.; et al. (3977)
Venter, J. H.; et al. 11624
de Wet, T.; et al. 11624
Problems in the theory of probability distributions, III (1452,1472)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 14192

62E25 *Monte Carlo studies*

Čekalina, G. V.; et al. (6446,6447)
Fatkin, Ju. M.; et al. (6446,6447)

62E99 *None of the above, but in this section*

Chambers, J. M.; et al. (4059)
Mallows, C. L.; et al. (4059)
Saporta, Gilbert (3972)
Stuck, B. W.; et al. (4059)
Szabó, Z. 14195

62Fxx Parametric inference

62F05 *Hypothesis testing*

(Abildgård, F.) 1447
Adam, J.; et al. 14196
(Barnard, G. B.) 1447
(Barndorff-Nielsen, O.) 1447
(Basu, D.) 1447
Byron, R. P. (6437)
Chhikará, Raj S.; et al. 3914
Čibisov, D. M. (14192)
(Cox, D. R.) 1447
David, F. N. 14197
(Dempster, A. P.) 1447
(Edwards, A. W. F.) 1447
Enke, H. 14198
Enke, H.; et al. 14196
Feraud, Lucien 11625
Folks, J. Leroy; et al. 3914
Geffroy, Jean 8954
Goodman, Leo A. 3916,3917
Johnson, Richard A. 6354
(Kalbfleisch, J. D.) 1447
Kovner, J. L.; et al. 3915
Kuk, Ju. V.; et al. 1446
Littell, Ramon C.; et al. 8955
MacNeill, Ian B. 14199
Martin-Löf, P. 1447
Nemetz, T. 14200
Patil, S. A.; et al. 3915
Perng, S. K.; et al. 8955
Petunĭn, Ju. I.; et al. 1446
Pickard, D. K. 11626
Quesenberry, C. P.; et al. 14201
Rahim, M. A. (11672)
(Rasch, G.) 1447
Ray, R. M. 6355
Ruhin, A. L. (3935)
Schweder, Tore (14248)
(Sprott, D. A.) 1447
Srour, David 3918
Starbuck, R. R.; et al. 14201
Vodă, V. Gh. (11708)
Wang-an 8956
Yao, Jing Shing 11627
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I (14192)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 14197
Proceedings of Conference on Foundational Questions in Statistical Inference (Aarhus, 1973) 1447

62F07 *Ranking and selection*

Alam, Khursheed; et al. 1448
Carroll, Raymond J.; et al. 3919
Chiu, W. K. 8957a-b
Chiu, W. K.; et al. 8958
Desu, M. M.; et al. 11628
Geertsema, J. C. (3997)
Gupta, Shanti S.; et al. 3919,3920
Hoel, David; et al. 1449,14202
Huang, Deng Yuan; et al. 3919
Huang, Wen Tao; et al. 3920
Lam, K.; et al. 8958
McDonald, Gary C. 11629
Nordbrock, Earl (9002)
Ofosu, J. B. 11630
Ofosu, J. B.; et al. 3922
Pradhan, Meena; et al. 3921
Rizvi, M. Haseeb; et al. 1448
Sathe, Y. S.; et al. 3921
Singh, Jagbir (1497)
Sobel, Milton; et al. 1449,11628,14202
Solomon, Herbert; et al. 1448
Somerville, P. N. 1450
Srivastava, M. S.; et al. (6411)
Taneja, V. S.; et al. (6411)
Weiss, George H.; et al. 14202
Wetherill, G. B.; et al. 3922
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 1449

62F10 *Estimation*

Akahira, Masafuni 3923,3924
Barnard, G. A. (1490)
Barnett, William A. 6356
Baron, David P. (6343)
Bird, Howard A.; et al. (6381)
Birkes, David; et al. (6386)
Brown, Charles C.; et al. 3925
Bühler, W.; et al. (1429)
Bunke, O. 14203
Burman, David (3874)
Choi, Jae Rong 1451
Cifarelli, D. Michele; et al. 8959
Cohen, Arthur 14204
Cohen, Arthur; et al. 3926
Curelaru, L.; et al. 3927
D'Agostino, Ralph B.; et al. 14205
Davidson, Roger R.; et al. 11631
Deutler, T.; et al. (1429)
Dolby, G. R. 8960
Dorogovcev, A. Ja. (3912)
Dykstra, Richard L.; et al. 11632
Feigin, Paul David (14285)
Fenech, Alan Paul 14206
Geertsema, J. C.; et al. (11684)
Ghosh, B. K.; et al. 3936
Gokhale, D. V. 3928
Govindarajulu, Z.; et al. 3929
Haberman, Shelby J. 3930
Has'minskiĭ, R. Z.; et al. 1452
Hasminskiĭ, R. Z.; et al. 3931
Henna, Jõgi 14207
Hodžabagjan, S. S.; et al. 1455
Hogan, William W. (8985)
Ibragimov, I. A. 1452,3931
Ibramhalilov, I. Š. (11703)
Ishii, Goro 8961
Jakuszenkow, Helena 8962
Johnson, Richard A. (6354)
Joshi, V. M. 1453
Kagan, A. M. 1454
Kanno, Ryuzo 8963
Kelley, Gary D.; et al. 11633
Kelley, Judy A.; et al. 11633
Klebanov, L. B. 14208,14209
Kovrigin, A. B. *3932
Kozek, A. 14210
Królikowska, Krystyna 11634
Kuß, U. 8964
Lee, Austin F. S.; et al. 14205
Leitch, R. A.; et al. 11635
Leonard, Tom 8965
Lindgren, Georg 14211
Lingappaiah, G. S. (8949,14189)
Linnik, Ju. V.; et al. 6358
Madsen, Richard W.; et al. 11632
Magiera, Ryszard (3999)
Milliken, George A.; et al. (6381)
Monti, Katherine L.; et al. 14212
Muenz, Larry R.; et al. 3925
Nagaev, A. V.; et al. 1455
Nussbaum, M. 1456
Okuma, Akimichi (3893)
Olsen, Anthony; et al. (6386)
Papantoni-Kazakos, P. 8966
Patel, Jagdish K. (11707)
Paulson, A. S.; et al. 11635
Pedersen, J. G. (*14171)
Pfanzagl, J. 3933
Plante, André 3934
Rao, C. Radhakrishna (8988)
Regazzini, Eugenio; et al. 8959
Rennie, Robert R.; et al. (6424)
Ruhin, A. L. 3935
Ruhin, A. L.; et al. 6358
Sackrowitz, Harold B.; et al. 3926
Sahai, Hardeo; et al. 3929
Särndal, Carl Erik (1432)
Schucany, W. R.; et al. 11633
Seely, Justus; et al. (6386)
Sen, P. K.; et al. 3936
Sen, Pranab K.; et al. 14212
Shimizu, Kunio 6359
Solomon, Daniel L.; et al. 11631
Southward, G. Morris; et al. 1457
Sprent, P. 3937
Stephens, M. A. 11636
Swanepoel, J. W. H.; et al. (11684)
Tusnády, G. (6413)
Van Ryzin, J.; et al. 1457
Vasicek, Oldrich 8967
Villegas, C. (6423)
Villegas, C.; et al. (6424)
Vodă, V. Gh. 6360,6361
Vodă, V. Gh.; et al. 3927
Zmyślony, R. (14249)
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) (1490)
Problems: Theory of probability distributions, III 1452
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 1457
Stochastic processes and related problems, Part 2 1455
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 3937

62F15 *Bayesian inference*

Afonja, B.; et al. 14214
Bad, Monica 1458
(Barnard, George A.) 3944
(Barnett, V. D.) 3939
(Box, G. E. P.) 3944,*6362
Brooks, R. J. (3951)
(Chatfield, C.) 3939
(Copas, J. B.) 3939

62F15 *Continued*

(Cox, D. R.) 3939
(Dawid, A. P.) 3939
Dickey, James 8968
(Dickey, James M.) 3944
Diesperova, M. M. 14213
El-Atoum, S. A. M.; et al. 3940
Fearn, T. 3938
(Fienberg, S. E.) 3939
(de Finetti, B.) 3939
(Fraser, D. A. S.) 3944
Geisser, Seymour 6363
Goldstein, M. (1491)
Guttman, Irwin; et al. 11638
(Harding, E. F.) 3939
(Hill, B. M.) 3939
(Hinkley, D. V.) 3939
Huang, Wen Tao 1459
(Kempthorne, O.) 3939
Khatri, C. G.; et al. 11638
Klebanov, L. B.; et al. (3906)
(Leonard, T.) 3939
Lindley, D. V.; et al. 3939
(Lindley, D. V.) 3944
Lingappaiah, G. S. 1460
Mardia, K. V.; et al. 3940
Mehta, J. S.; et al. 8969
Melamed, I. A.; et al. (3906)
(Nelder, J. A.) 3939
(Novick, M. R.) 3939
(Plackett, R. L.) 3939
(Pratt, John W.) 3944
Samiuddin, M. 3941
Sen, Ashish; et al. 3942
Smith, A. F. M. 3943
Smith, A. F. M.; et al. 3939
(Smith, C. A. B.) 3939
(Sprent, P.) 3939
Srivastava, Muni S.; et al. 3942
Stone, Mervyn 3944
Swamy, P. A. V. B.; et al. 8969
(Thompson, R.) 3939
(Tiao, G. C.) 3944
Tiao, George C.; et al. *6362,14214
Vandaele, Walter; et al. 14215
(Villegas, C.) 3944
de Waal, D. J. (1485)
Zellner, Arnold; et al. 14215
Applied statistics (Proc. Conf., Dalhousie Univ., Halifax, N. S., 1974) 11638
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) 8968,8969,14215

62F20 Asymptotic efficiency

Kalandarišvili, S. G.; et al. 1461
Pratt, John W. 3945
Wolfowitz, J. 6364
Zerakidze, Z. S.; et al. 1461
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 6364

62F25 *Tolerance and confidence regions*

Basu, J. P.; et al. 1462
Basu, Rekha; et al. 1462
Haq, M. Safiul; et al. 6365
Lewis, T. O.; et al. 1462
Milnes, Harold Willis (1438)
Rinco, Stefan; et al. 6365
Robinson, G. K. 3946
Vessereau, A. 8970
Williams, E. J. 3947
Error, Approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 3947

62F99 *None of the above, but in this section*

Matsuda, Tadayuki 14216

62Gxx Nonparametric inference

(Boullion, Thomas L.) (*14217)
(Lewis, Truman O.) (*14217)
Nonparametric statistics (*14217)

62G05 *Estimation*

Agliullin, I. N. 11639
Alekseev, V. G. 6366
Bleuez, Jacques; et al. 8971
Bosq, Denis; et al. 8971
Carroll, R. J. (11685)
Crain, Bradford R. 3948,14218
Dorogovcev, A. Ja. 6367,6368,11640
Hanson, D. L.; et al. 14219
Hašimov, Š. A. 8972
Hašimov, Š. A.; et al. 3949
Hławka, Piotr 1463
Kristeva-Varbanova, M. 14220
Lwin, Thaung 1464
Mirzahmedov, M. A.; et al. 3949
Moore, David S.; et al. 14221
Mustafi, C. K. 11641
Narsdaja, È. A. 3950,14222,14223
Noda, Kazuo 14224
Pickands, James, III 11642
Pledger, Gordon; et al. 14219
Reinach, S. G. 11643
Reiss, R.-D. 6369
Schuster, Eugene F. (6353)
Singh, R. S. 1465
Tamura, Ryoji 1466
Wertz, Wolfgang 14225
Yackel, James W.; et al. 14221
Yanagawa, Takashi (11604)
Youssef, Hussein M. 8973
Zijaeva, Z. T. 1467
Random processes and statistical inference, No. 4 8972
Random processes and statistical inference, No. 5 1467
Theory of random processes, No. 4 11640

62G10 *Hypothesis testing*

Adichie, J. N. 11644
Ahmad, R. 11645,14226
Baskerville, J. C.; et al. (8940)
Basu, A. K. 1468
Bennett, B. M. 1469
Borovskih, Ju. V. (8951)
Breth, M. 11646
Broffitt, James D.; et al. 11647
Brooks, R. J. 3951
Chase, Gerald R. 6370
Csörgő, Sándor (8952)
Darhovskiĭ, B. S. 3952
Erickson, R. V.; et al. 1470
Fligner, Michael A.; et al. 3953
Gail, Mitchell H.; et al. 3954
Green, Sylvan B.; et al. 3954
Groeneboom, P.; et al. 6371
Gvanceladze, L. G. 1471
Hettmansperger, Thomas P. 3955
Hewett, John E.; et al. 14232
Hogg, Robert V.; et al. 3953,11647
Holm, Sture (11682)
Ibero, Michel 11648
Kakiuchi, Itsurō; et al. 3956
Killeen, Timothy J.; et al. 3953
Kim, P. J. 14227
Kimura, Miyoshi; et al. 3956
Koul, H. L.; et al. 1470
Krauth, Joachim 3957,14228
Krumbholz, W. (14056,14057)
Lepage, Y.; et al. 6371
Lombard, F. 14229
Martynov, G. V. (6352)
Miller, Rupert G., Jr. (9001)
Moore, David S. 6372
Morice, E. 8974
Nanjundaswamy, L.; et al. 11649
Nikitin, Ja. Ju. 1472
Norita, Sadataka 14230
Pawłowski, Zbigniew 8975
Penkov, B. I. 3958
Pettitt, A. N. 1473
Randles, Ronald H.; et al. 11647
Rüschendorf, Ludger (3894,8806)
Ruymgaart, F. H.; et al. 6371
Sampathkumar, E.; et al. 11649
Serfling, R. J. 8976
Shirahata, Shingo 14231
Solomon, D. L.; et al. (8940)
Spurrier, John D.; et al. 14232
Tamura, Ryoji 1474
Vasicek, Oldrich (8967)
Vorlíčková, Dana 6373
Wolfe, Douglas A. 6374,(14185)
Yanagawa, Takashi; et al. 3956
Problems: Theory of probability distributions, III 1472
Proceedings: Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I (9001)
Progress in statistics (European Meeting of Statisticians, Budapest, 1972) 14226

62G15 *Tolerance and confidence regions*

Geertsema, J. C.; et al. 11650
Govindarajulu, Z. 8977
Krewski, Daniel 3959
Lwin, T.; et al. (11592)
Maritz, J. S.; et al. (11592)
Noether, G. E. 8978
Sen, Pranab Kumar; et al. 3961
Steyn, H. S., Jr.; et al. 11650
Switzer, Paul 3960
Williams, George W.; et al. 3961
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 8978

62G20 *Asymptotic efficiency*

Groeneboom, P.; et al. (6371)
Kanno, Ryuzo 1475
Lepage, Y.; et al. (6371)
Nikitin, Ja. Ju. (1472)
Ruymgaart, F. H.; et al. (6371)
Problems in the theory of probability distributions, III (1472)

62G25 *Quick and easy methods*

Neave, Henry R. 1476
Satskih, S. Ja. 8831
Siraja, T. N. 14076
Suciu, Ion; et al. 11476
Valusescu, Ilie; et al. 11476
Weron, A.; et al. 14072
Current problems in mathematics, Vol. 3 8830
Questions of statistics and of the control of random processes 14071

62G30 *Order statistics*

Beesack, Paul R. (2902)
Blagoeravov, L. A. 3962
Book, Stephen A. (3818)
Dziubdziela, W. (6231)
Egorov, V. A.; et al. 3963
Gaver, Donald P. (8841)
de Haan, Laurens (14022)
Hecker, H. (11617)
Kristeva-Varbanova, M. (14220)
Margolin, Barry H.; et al. 14233
Mathai, A. M. 3964
Matsunawa, T. (1442,10694)
Maurer, Willi; et al. 14233
Michalek, Joel 1443
Miller, Douglas R. (3873)
Morgenstern, Dietrich (3795)
Nevzorov, V. B.; et al. 3963
Prakasa Rao, B. L. S. (8805)
Problems: Theory of probability distributions, III 3963

62G35 *Robustness*

Shorack, Galen R. 3965

62G99 *None of the above, but in this section*

Csörgő, M. (3805)
Doksum, Kjell A. (14179)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I (14179)
Strong laws of invariance principle (3805)

62Hxx Multivariate analysis

Press, S. James *8979

62H05 *Characterization and structure theory*

Das Gupta, S.; et al. 1478
Eaton, Morris L.; et al. 1477,1478
Olkin, I.; et al. 1478
Paulauskas, V. J. (6227)
Perlman, Michael D.; et al. 1477,1478
Savage, L. J.; et al. 1478
Shanbhag, D. N. (8797)
Sobel, M.; et al. 1478
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II 1478

62H10 *Distribution of statistics*

Bagai, O. P. 14235,14236
Becker, P. J.; et al. 6376
Carter, E. M.; et al. 1479
Chattopadhyay, A. K.; et al. *11653
Constantine, A. G.; et al. 3966
Dickey, James M. 6377
Dutt, J. E.; et al. 3968
Dutt, John E. 3967
Farrell, Roger H. *11651
Fujikoshi, Yasunori 1480
Glaser, Leon Jay; et al. 14237
Gupta, A. K. 14238a-b
Johnson, Norman L.; et al. *6378
Kabe, D. G.; et al. 1481
Khatri, C. G.; et al. 1479
Kotz, Samuel; et al. *6378
Krishnaiah, P. R.; et al. *11653
Lancaster, H. O. 11652

62H10 *Continued*

Laurent, A. G.; et al. 1481
McHenry, C. E. 3969
Muirhead, R. J.; et al. 3966
Olkin, Ingram; et al. 14237
Pawłowski, Zbigniew (8975)
Roux, J. J. J.; et al. 6376
Schuurmann, F. J.; et al. *1482,*11653
Soms, A. P.; et al. 3968
Srivastava, M. S.; et al. 1479
Tan, W. Y. 1483
Theobald, C. M. 11654
Waikar, V. B.; et al. *1482
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 11652
Tables:
Multivariate *F* distribution *11653
Statistics *1482

62H15 *Hypothesis testing*

Bennett, B. M. (1469)
Brown, C. C. (3901)
Brown, Morton B. 1484
Enderlein, G. 14239
Kirschner, H.-P. 14240
Kshirsagar, A. M.; et al. 14241
McHenry, C. E.; et al. 14241
Monti, Katherine L.; et al. (14212)
Schmidt, Wolfgang H. 14242
Sen, Pranab K.; et al. (14212)
Streit, Franz 3970
Venables, W. 3971
de Waal, D. J. 1485
Proceedings of the Session of the International Statistical Institute, 39th (Vienna, 1973), Vol. 2 3970
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 14240

62H20 *Correlation analysis, canonical correlation*

Afriat, Sydney; et al. *6379
Eaton, Morris L. 5272
Ogawara, Masami 8980
Rama Sastry, M. V.; et al. *6379
Saporta, Gilbert 3972
Tintner, Gerhard; et al. *6379

62H25 *Factor analysis and principal components*

Aragon, Yves; et al. 14243
Bennett, Spencer; et al. *11655
Bowers, David *11655
Browne, M. W. 11656
Cahoon, Lawrence S.; et al. 11657
Corballis, M. C. 11658
Couot, Jacques; et al. 14243
Fukutomi, Kazuo; et al. 14244
Hakstian, A. Ralph 11659
Hinich, Melvin J.; et al. 11657
Jennrich, Robert I. 11660
Leclerc, A. 11661
Nakache, Jean-Pierre 3973
Please, N. W. 11662
Tumura, Yosiro; et al. 14244
Võhandu, L. 11663
Information processing. Functional analysis 11663

62H30 *Classification and discrimination*

Boyle, Brian E. (9008)
Broffitt, James D.; et al. (11647)
van der Burgt, A. T.; et al. 11665
Chu, John T. (1735)
Diday, E. 11664
Ehrich, Roger W. 1486
Glick, Ned 6380
Györfi, László 1487
Habbema, J. D. F.; et al. 11665
Hermans, J.; et al. 11665
Hildebrandt, B.; et al. 14245
Hogg, Robert V.; et al. (11647)
Kanatov, I. I.; et al. 8983
Klescov, V. V.; et al. 8983
de Kluyver, Cornelis 8981
Koller, S.; et al. 14245
Konovalenko, V. V.; et al. 8983
Laycock, P. J.; et al. 11667
McLachlan, G. J. 11666
Michaelis, J.; et al. 14245
Morris, J. E.; et al. 11667
Nadaraja, È. A. (14222)
Randles, Ronald H.; et al. (11647)
Randon, Denis 8982
Raudys, Šarūnas 11668
Stone, M. 3974
Ulmo, J. 14246
Vasil'ev, V. I.; et al. 8983
Zaharov, Ju. E.; et al. 8983

62H99 *None of the above, but in this section*

Baccini, Alain 3975
Basu, J. P.; et al. (1462)
Basu, Rekha; et al. (1462)
Diday, E.; et al. (1736)
Lewis, T. O.; et al. (1462)
Ok, Y.; et al. (1736)
Pousse, Alain; et al. 3975
Schroeder, A.; et al. (1736)
Whitt, Ward (14045)
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) (1736)

62Jxx Linear inference

Alldredge, J. R.; et al. 11669
Gilb, N. S.; et al. 11669
Oktaba, Wiktor *3976
Bibliography: Ridge regression 11669

62J05 *Regression analysis*

Amemiya, Takeshi 1488
Anderson, T. W.; et al. 3977
Baksalary, J. K.; et al. 1489,3978
Barnard, G. A. 1490
(Barnett, V. D.) (3939)
Bird, Howard A.; et al. 6381
Birkes, David; et al. 6386
Box, George E. P.; et al. (*6362)
Braverman, V. Ja.; et al. 3979
Brook, Richard J. 8984
Bunke, Helga 3980
Bunke, O. 3981,(14203)
Cazes, P. 3982
Celmiņš, Aivars (1632)
(Chatfield, C.) (3939)
Cheng, Pao Lun (1527)
(Copas, J. B.) (3939)
(Cox, D. R.) (3939)
(Dawid, A. P.) (3939)
Dickey, James (8968)
Diefenbach, L. 3983
Drozdov, N. D. (*2671)
Drygas, H. 6382
Ebbeler, Donald H. (6439)
Ellenberg, Jonas H. 11670
(Fienberg, S. E.) (3939)
(de Finetti, B.) (3939)
Fomičov, O. O.; et al. 3939
Goldstein, M. 1491
Goldstein, M.; et al. 6383
Griffiths, W. E. 6384
(Haas, W. R.) (1632)
Haas, Willard R.; et al. (1631)
(Harding, E. F.) (3939)
Hawkins, Douglas M. 3984
(Hill, B. M.) (3939)
(Hinkley, D. V.) (3939)
Hogan, William W. 8985
Ibarrola Muñoz, María del Pilar 6385
Kala, R.; et al. 1489,3978
Kalandarišvili, S. G.; et al. (1461)
Kanoh, Satoru; et al. 1492
(Kempthorne, O.) (3939)
Läuter, H. 3985
(Leonard, T.) (3939)
Lindley, D. V.; et al. (3939)
Milliken, George A.; et al. 6381
(Nelder, J. A.) (3939)
(Novick, M. R.) (3939)
Nussbaum, M. (1456)
Obenchain, R. L. 8986
Olsen, Anthony; et al. 6386
O'Reilly, Federico J. 3986
Parring, A. H. 14247
Pinski, K.; et al. 3987
(Plackett, R. L.) (3939)
Pluta, Wiesław 11671
Rahim, M. A. 11672
Rao, C. Radhakrishna (5266),8987,8988,(14180)
Revankar, Nagesh S. 6387
Roodman, Gary M. 6388
Sawa, Takamitsu; et al. 1492
Schweder, Tore 14248
Seely, Justus; et al. 6386
Shukla, N. D.; et al. 6389
Smith, A. F. M.; et al. (3939),6383
(Smith, C. A. B.) (3939)
Smith, W. C.; et al. 6390
Sposito, V. A.; et al. 3987,6390
(Sprent, P.) (3939)
Srivastava, S. R.; et al. 6389
Stone, M. 3988
Taylor, John B.; et al. 3977
(Thompson, R.) (3939)
Tiao, George C.; et al. (*6362)
(Wnek, W. J.) (1632)
Wnek, Walter J.; et al. (1631)
Zellner, Arnold 8989
Zerakidze, Z. S.; et al. (1461)
Zmyślony, R. 14249
Perspectives in probability and statistics (Papers in honour of M. S. Bartlett on the occasion of his 65th birthday) 1490
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) (8968)

62J10 *Analysis of variance and covariance*

Albert, Arthur 1493
Berchtold, W. (8998)
Bhargava, R. P.; et al. 6391
Cornell, John A. (6397)
Crain, Bradford R.; et al. 14251
Dewess, Günter 11673
Haberman, Shelby J. (11679)
Harville, David A. (6394)
Haverland, U. 14250
Hemmerle, W. J.; et al. (1576)
Hemmerle, William J. 6392
Henderson, C. R.; et al. 1494
Jensen, Louis; et al. 3989
Kaminskas, Vytautas 8990
Lindsey, J. K. 11674
Lorens, J. A.; et al. (1576)
Mendoza, Jorge L.; et al. 14251
Schaeffer, L. R.; et al. 1494
Searle, S. R.; et al. 1494
Shah, K. R.; et al. 6391
Stone, Mervyn; et al. 3989
Toothaker, Larry E.; et al. 14251

62J15 *Paired and multiple comparisons*

Bhapkar, V. P.; et al. 1495
Duncan, David B. 1496
Mărgăritescu, Eugen 11675
Singh, Jagbir 1497
Somes, Grant W.; et al. 1495

62J99 *None of the above, but in this section*

Choi, Jae Rong (1451)
Fearn, T. (3938)

62Kxx Experimental design (See also 05Bxx.)

Oktaba, Wiktor (*3976)

62K05 *Optimal designs*

Atwood, Corwin L. 6393
Bunke, Helga (3980)
Cho, Chu Kyŏng 8991
Cho, Chu Kyŏng; et al. 8992
Harville, David A. 1498,6394
Kiefer, J. 8993
Kiefer, J.; et al. 11676
Kupper, Lawrence L. 3990
Läuter, E. 1499
Li, Ŭi Yŏk; et al. 8992
Näther, Wolfgang 8994
Pázman, Andrej 8995,8996,11677
Pesočinskiĭ, L. L. 3991
Sedunov, E. V. 3992
Studden, William J.; et al. 6395,11676
Titterington, D. M. 6396
Tsay, Jia Yeong; et al. 6395
Wawrzynek, Jerzy 14252
Wynn, H. P. 1500
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 8993
Survey of statistical design and linear models 1498

62K10 *Block designs*

Afonja, B.; et al. (14214)
Aggarwal, K. R. 8997
Aggarwal, K. R.; et al. 6402
Agrawal, H. L.; et al. 3993,14253
Berchtold, W. 8998
Bhargava, R. P.; et al. (6391)
Birina, G. A. 11678
Bose, R. C. 8999
Cornell, John A. 6397
Federer, W. T.; et al. 6398,(11603)
Gnot, S. 14254
Hedayat, A.; et al. 6398
John, Peter W. M. (7280),14255
Kageyama, Sanpei (5002),6399,6400
Markova, E. V. (10040)
Nigam, A. K. 14256a-b
Rafter, J. A.; et al. 6401
Raghavarao, D.; et al. 6402,(11603)
Seiden, E.; et al. 6401
Shah, K. R.; et al. (6391)
Sharma, K. L.; et al. 3993
Sharma, R. S.; et al. 14253

62K10 *Continued*

Singh, Rajinder; et al. (11603)
Tiao, G. C.; et al. (14214)
Combinatorial methods for experiment planning (10040),11678

62K15 *Factorial designs*

Aggarwal, K. R.; et al. (6402)
Brodskiĭ, V. Z. *6403
Cotter, Sarah C. 6404
Crain, Bradford R.; et al. (14251)
Federer, W. T. 6405,6406
Haberman, Shelby J. 11679
Jha, M. P.; et al. 3995
Mendoza, Jorge L.; et al. (14251)
Nigam, A. K.; et al. 3994
Puri, P. D.; et al. 3994
Raghavarao, D.; et al. (6402)
Raktoe, B. L.; et al. 6405,6406
Shirakura, Teruhiro 1501,6407
Toothaker, Larry E.; et al. (14251)
Tyagi, B. N.; et al. 3995

62K99 *None of the above, but in this section*

Hinkelmann, Klaus (9717)
Jarvis, C. L. 3996
Thornett, M. L. 14257
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 3996
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 14257
A survey of statistical design and linear models (9717)

62Lxx Sequential methods

62L05 *Sequential design*

Bataille, Michel 9000

62L10 *Sequential analysis*

Aroian, Leo A. 11680
Basu, A. K. (1468)
Berk, Robert H. 6409
Brown, B. M. 6408
Dupač, Václav; et al. 14269
Geertsema, J. C. 3997
Geertsema, J. C.; et al. 11684, 14264,14266
Gheorghe, Florin Cristian; et al. 11681
Hoel, David; et al. (1449)
Holm, Sture 11682
Ivanov, Vladimir V.; et al. 14269
Ivanova, T. V.; et al. 14259
Ivcenko, G. I.; et al. 14259
Kel'bert, M. Ja. 14260
Lai, Tze Leung 14261
Lombard, F. (14229)
Lorden, Gary 14262
Miller, Rupert G., Jr. 9001
Nordbrock, Earl 9002
Obreja, George; et al. 11681
Radžabov, A.; et al. 11683
Read, Campbell B. 9003
Sen, Pranab Kumar (11621)
Şerbu, Mihaela; et al. 11681
Siegmund, D. 6410
Simons, Gordon 14263
Siraždinov, S. H.; et al. 11683
Sobel, Milton; et al. (1449)
Srivastava, M. S.; et al. 6411
Swanepoel, J. W. H.; et al. 11684,14264,14266
Taneja, V. S.; et al. 6411
Woodroofe, Michael 3998
Bibliography: Stochastic approximation 14269
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 9001
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV (1449)
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 6408

62L12 *Sequential estimation*

Carroll, R. J. 11685
Gleser, Leon Jay; et al. 14267
Hollander, Myles; et al. 1502
Korwar, Ramesh M.; et al. 1502
Kunte, Sudhakar; et al. 14267
Linnik, Ju. V. 9004
Magiera, Ryszard 3999
Robbins, Herbert; et al. 11686
Sen, Pranab Kumar; et al. (3961)
Siegmund, David; et al. 11686
Skrjabin, D. D. 4000
Williams, George W.; et al. (3961)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 9004
Statistical theory of estimation, I 4000
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 11686

62L15 *Optimal stopping* [*See also* 60G40.]

Bartoszyński, Robert (14082)
Chang, R. C.; et al. 4001
Ehrenfeld, S.; et al. 4001
Gianini, Jacqueline; et al. 1503
Kelley, Thomas A. 14268
Klass, Michael J. (14086)
Lai, Tze Leung (14261)
Macken, Catherine A.; et al. (14111)
Nikolaev, M. L. (11484)
Runggaldier, Wolfgang 11687
Sakaguchi, Minoru 9005,(14793)
Samuels, Stephen M.; et al. 1503
Taylor, Howard M.; et al. (14111)
Oberwolfach-Tagung über Operations Research, Siebente (1974) 11687

62L20 *Stochastic approximation*

Anbar, Dan 1504
Braverman, È. M.; et al. 11688
Daubeze, P. 4002
Džavahišvili, I. N.; et al. 6412
Geldiašvili, N. I.; et al. 6412
Has'minskiĭ, R. Z.; et al. *11689
Krasulina, T. P. 14270
Litvakov, B. N.; et al. 11688
Nevel'son, M. B.; et al. *11689
Rastrigin, L. A. (*7074)
Sysoev, L. P. (2198)
Tusnády, G. 6413
Westerberg, Roy A.; et al. 9006
Young, Tzay T.; et al. 9006
Operations research and statistical simulation, No. 2 14270
Proceedings of the All-Union Conference on Automatic Control—Engineering Cybernetics Fourth (Tbilisi, 1968), Vol. 2 11688
Two Symposia on Probability and Applications 4002

62L99 *None of the above, but in this section*

Perng, S. S. 14271

62Mxx Inference from stochastic processes

62M05 *Markov processes*

Arató, Mátyás 1505
Beyer, Jan E.; et al. 9007
Bonnieux, F. (9682)
Boyle, Brian E. 9008
Brown, B. M. (6408)
Crump, K. S.; et al. (1407)
Devore, Jay L. 6414
Diesperova, M. M. (14213)
Dorogovcev, A. Ja. (11640)
Eaves, David 4003
Gänssler, P. 6415
Gheorghe, Florin-Christian; et al. 6416
Hordijk, Arie; et al. 11690
Howe, R. B.; et al. (1407)
Iglehart, Donald L.; et al. 11690
Keiding, Niels; et al. 9007
Klotz, Jerome 6417
Obreja, George; et al. 6416
Schassberger, Rolf; et al. 11690
Seleacu, Vasile 9009
Simonsen, W.; et al. 9007
Širjaev, A. N. (8837)
Vu The Hyu 14272
Yamada, Keigo (11594)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV 6417
Progress in statistics (European Meeting of Statisticians, Budapest, 1972) (8837)
Questions of statistics and of the control of random processes 14272
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) (6408)
Theory of random processes, No. 4 (11640)

62M10 *Time series, autocorrelation, regression, etc.*

Abd-Alla, A. 9010
Afanas'eva, L. G.; et al. 14273
Akaike, Hirotugu 11691
Anderson, O. D. 4004,14278
Andes, D. K.; et al. 6418
Arató, Mátyás; et al. (14023,14024)
Bandemer, H.; et al. 14274
Bëgzžav, P.; et al. 6419
Benczur, András; et al. (14023,14024)
Bjambažav, D.; et al. 6419
Chow, Gregory C.; et al. 14275
Cleveland, W. P.; et al. 14276
Davies, N.; et al. 14277
(Davies, N.) 14278
Ditchen, Ryszard; et al. 11694
Dorogovcev, A. Ja.; et al. 11692,14279a
Doržgotov, A.; et al. 6419
Ebbeler, Donald H. 4005
Frost, M. G.; et al. 14277
(Frost, M. G.) 14278
Gniazdowski, Andrzej; et al. 11693a
Hacet, S. V.; et al. (14071)
Haugh, Larry D. 6420
Heiler, Siegfried *6421
Ivanov, O. V. 9011
Jadrenko, M. I.; et al. (14071)
Kartašov, Ju. V. 11692,14279a
Kedem, Benjamin 4006
Kligienė, Nerutė 9012a
Knoke, James D. 6422
Knopov, P. S. 1506
Krámli, András; et al. (14023,14024)
Krasnits'kiĭ, S. M. (8828)
Krowicki, Stanisław; et al. 11693b
Kuk, Ju. V.; et al. 9013
Kuricin, Ju. G.; et al. 14273
Le Anh Son; et al. 14274
Legoupil, J. 4007
Lin, An Loh; et al. 14275
Lipeĭka, Antanas 11695
Metcalf, F. T.; et al. 6418
Nagai, Takeaki 9014
Ord, Keith 1507
Pate, M. B.; et al. 14277
(Pate, M. B.) 14278
Pergel, József; et al. (14023,14024)
Petunīn, Ju. Ī.; et al. 9013
Prouza, Ludvík 9015
Rasulov, N. P. 1508
Rennie, Robert R.; et al. 6424
Suškov, V. S. 14280
Swick, David A. 9016
Szczepankiewicz, Eugeniusz 11637
Szczepankiewicz, Eugeniusz; et al. 11693a-b,11694
Telksnys, Laimutis 9012b
Tiao, G. C.; et al. 14276
Tusnády, G. (6413)
Villegas, C. 6423
Villegas, C.; et al. 6424
Wesołowska, Maria Zofia 14281
Bibliography: Statistical model identification 11691
Publications des Séminaires de Mathématiques de l'Université de Rennes, Année 1967-1968 4007
Questions of statistics and of the control of random processes (14071)
System identification and time-series analysis 11691

62M15 *Markov processes*

Alekseev, V. G. 1509,1510,6425,14282
Antoševskiĭ, Ž.; et al. 9017

62M15 *Continued*

Antoševskis, Z. 11696
Bentkus, R.; et al. 9017,11697
Berk, Kenneth N. 9018
Casal, Ignacio (6256)
Faĭzullaeva, S. 1511
Gasser, Theodor *9019
Knopov, P. S. 14283
Lindgren, Georg (14211)
Lui, Ming-Chuan C.; et al. 1512
Masry, Elias; et al. 1512
Osidze, A. G. 11698
Rahimov, G. M. 1513,6426
Rice, John 1514
Rudzkis, R.; et al. 11697
Statulevičius, V.; et al. 11697
Subba Rao, T.; et al. 9020
Tong, H.; et al. 9020
Collection: Neyman, Jerzy 9018

62M20 *Prediction* [*See also* 60G25.]

Chow, Gregory C. 6427,6428
Fishman, Philip M.; et al. (6257)
Friel, James O. 9021
Gajęcki, Ryszard 11699
Komissarčik, V. F. 11700
Laûter, Henning 4008
Parzen, Emanuel 9022
Rehder, W. 14284
Snyder, Donald L.; et al. (6257)
Yamamoto, Taku 11701
System identification and time-series analysis 9022

62M99 *None of the above, but in this section*

Dočviri, V. M. 11702
Feigin, Paul David 14285
Ibramhalilov, I. Š. 11703
Jadrenko, M. I. (6255)
Norita, Sadataka 14286
Ponomarenko, O. I. 9023
Troickiĭ, E. A. 11704

62Nxx Engineering statistics

62N05 *Reliability and life testing*

A-Hameed, M. S.; et al. 6429
(Barlow, Richard E.) 11709
Bartos, Jerzy 14287
Beichelt, Frank (9641)
Berg, Menachem 6430
(Birnbaum, Z. W.) *11709,(12455)
Block, Henry W.; et al. 6431
Boardman, Thomas J.; et al. 6432
Brindley, E. C., Jr.; et al. 1515
Chang, Eugene Y.; et al. 1516
Chang, R. C.; et al. (4001)
Colvert, Robert E.; et al. 6432
Ehrenfeld, S.; et al. (4001)
Finkel'šteĭn, E. Ja. *14288
(Fussell, Jerry B.) *11709
Gaver, D. P. (6313)
Gerlach, B.; et al. 11705
Ghiţă, Alexandru 1517
Gnedenko, D. B.; et al. 11706
Guenther, William C.; et al. 14289
Kander, Zvi; et al. 4009
Kopociński, Bolesław (11543)
Korzeniowski, A.; et al. 14290
Lawless, J. F. 14291
Luss, Hanan; et al. 4009
Mastran, David V. 1518
McCool, John I. 9024
Miller, Douglas R. (3873)
Muhitdinova, N. M. 6433
Obretenov, Apostol 4010
Opawski, A.; et al. 14290
Patel, Jagdish K. 11707
Patil, S. A.; et al. 14289
Proschan, F.; et al. 6429
Saunders, Sam C. (12455)
Savits, T. H.; et al. 6431
Sen, Pranab Kumar 11621
(Singpurwalla, Nozer D.) *11709
Solov'ev, A. D.; et al. 11706
Stiffler, J. J. 14292
Thompson, W. A., Jr.; et al. 1515
Thompson, William E.; et al. 1516
Uppuluri, V. R. R.; et al. 14289
Vinogradov, O. P. 9025,14293
Vodă, V. Gh. 11708
Warmuth, W.; et al. 11705
Bibliography:
Birnbaum, Z. W. (12455)
Biography:
Birnbaum, Z. W. (12455)
Collection:
Birnbaum, Z. W. *11709
Conference on Reliability and Fault Tree Analysis (Univ. California, Berkeley, Calif., 1974) *11709
Fault tree analysis *11709
Reliability and fault tree analysis (Conf., Univ. California, Berkeley, Calif., 1974) *11709
Stochastic point processes: statistical analysis, theory, and applications (6313)
System reliability *11709

62N10 *Quality control* [*See also* 90Bxx.]

Dietrich, C. F. *1519
Ermolenko, A. F. 4011
Hald, Anders; et al. 1520
Hodžabagjan, S. S. 1521
Hodžabagjan, S. S.; et al. (1455)
Møller, Uffe; et al. 1520
Nagaev, A. V.; et al. (1455)
Vodă, Viorel Gh. 1522
Oberwolfach-Tagung über Operations Research (1974), Siebente (11687)
Robbins, Naomi B. (6289)
Runggaldier, Wolfgang (11687)
Stochastic processes and related problems, Part 2 (1455),1521

62Pxx Applications (See also 82—XX, 90—XX, 92—XX.)

62P05 *Actuarial mathematics*

Boehm, C.; et al. 9026a-b
Bohman, Harald (4155)
Bühlmann, Hans 4012
De Vylder, Fl. 9027
DuMouchel, William H.; et al. 6434
Engelfriet, J.; et al. 9026a-b
Freifelder, Leonard 1523
Grandell, Jan 4013
Harrison, J. Michael 11710
Helbig, M.; et al. 9026a-b
Hickman, James C.; et al. 4015
Hoem, Jan M. 1524
Jaumain, Christian 4014
Jewell, William S. 11711
(Jordan, C. W.) 9026b
Kool, A. I. M.; et al. 9026a-b
(Lamps, Dale) 4015
Leepin, P.; et al. 9026a-b
(Levine, Kenneth M.) 6434
Miller, Robert B.; et al. 4015
Neuburger, E.; et al. 9026a-b
Olshen, Richard A.; et al. 6434
(Straub, Erwin) 11711
Taylor, G. C. 1525,6435,(11570),14294
Wilkie, A. D.; et al. 9026a-b
Credibility: theory and applications (Proc. Berkeley Actuar. Res. Conf., Univ. California, Berkeley, Calif., 1974; dedicated to Edward A. Lew) 1523,1525,4015, 6434,6435,11711,14294
Filip Lundberg Symposium on Risk Theory (Stockholm, 1968) (4155)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 1524

62P10 *Biometrics*

Chesson, Jean (14181)
Consul, P. C.; et al. 9028
David, F. N. 4016,4017
Gail, Mitchell H.; et al. (3954)
Green, Sylvan B.; et al. (3954)
Jain, G. C.; et al. 9028
Morgan, B. J. T. 9029
Rothman, Edward D.; et al. 4018
Sing, Charles F.; et al. 4018
Walter, S. D. 11712
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I 4016,4017

62P15 *Psychometrics*

Altham, Patricia M. E. 11713
Bennett, Spencer; et al. (*11655)
Bowers, David; et al. (*11655)
Jensema, Carl J. 11714
Lbov, G. S.; et al. 9030
Manohin, A. N.; et al. 9030
Shepard, Roger N. 1526
Shocker, Allan D.; et al. 6436
Srinivasan, V.; et al. 6436

62P20 *Econometrics*

Afriat, Sydney; et al. (*6379)
Anderson, T. W. 11715
Barnett, William A. (6356)
Brown, George F., Jr. 4019
Byron, R. P. 6437
Carter, R. A. L. 4020
Cheng, Pao Lun 1527
Choudhry, N. K.; et al. 9033
Chow, Gregory C. 4021
Clark, Peter K. 4022a
(Clark, Peter K.) 4022b
Cohen, Ayala (6441)
Crouse, C. F.; et al. 11718
Deistler, M. 4023
Dhrymes, Phoebus J.; et al. 6438
Drèze, Jacques H. 11716
Dutta, M.; et al. 11717
Ebbeler, Donald H. 6439
Erlat, Halûk 4024,4025
Grobbelaar, J. W.; et al. 11718
Guzik, Bogusław 14295
Hasenkamp, Georg (*2148)
Hellwig, Zdzisław 11719
Hendry, David F.; et al. 6440
Hogan, William W. (8985)
Hsiao, Cheng 9031
Jansen, R.; et al. 14301
(Kendrick, David A.) (*6896)
von Klaudy, St.; et al. 14296
Leserer, M.; et al. 14296
Louter, A. S.; et al. 14301
Lyttkens, E.; et al. 11717
Mandelbrot, Benoit B. 4022b
Mariano, Roberto S. 14297
Morales, Juan-Antonio; et al. 11716
Nagar, A. L.; et al. 9033
Orsi, Renzo 14298
Raj, Baldev; et al. 9033
Rama Sastry, M. V.; et al. (*6379)
Ramsey, James B.; et al. 1528
Revankar, Nagesh S. (6387)
Rohr, R. J. 9032
Ronning, Gerd 11720
Rossier, Edouard 14299
Sargan, J. D. 4026,4027
Sawa, Takamitsu 14300
Schmidt, Peter; et al. 1528
Singh, Balvir; et al. 9033
Somermeyer, W. H.; et al. 14301
Starzeński, Oska- 4028
Taylor, John B.; et al. 6438
Tintner, Gerhard; et al. (*6379)
Tremayne, Andrew R.; et al. 6440
Vandaele, Walter; et al. (14215)
Zellner, Arnold; et al. (14215)
Econometric Society Winter Meetings (Toronto, Ont., 1972) (*6896)
Frontiers of quantitative economics (Invited Papers, Econometric Soc. Winter Meetings, Toronto, Ont., 1972), Vol. II (*6896)
(Intriligator, Michael D.) (*6896)
Quantitative economics (*6896)
Studi in memoria di Ettore Pezzoli, II 14298
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) (14215)

62P25 *Sociometrics*

Cohen, Ayala 6441

62P99 *None of the above, but in this section*

(Bartlett, M. S.) 1529
(Bennett, R. J.) 1529
Cliff, A. D.; et al. 1529
(Cormack, R. M.) 1529
(Davies, R. B.) 1529
(Diggle, Peter J.) 1529
(Evans, Ian S.) 1529
(Gregory, S.) 1529
(Haggett, P.) 1529
(Hansford-Miller, F. H.) 1529
(Mead, R.) 1529
(Mollison, Denis) 1529
(Openshaw, S.) 1529
Ord, J. K.; et al. 1529
Roudier, J. (8938)
(Westcott, M.) 1529

62Q05 Statistical tables

(Bose, R. C.) *4029
(Cameron, Joseph M.) *4029

62Q05 *Continued*

Chattopadhyay, A. K.; et al. (*11653)
Clatworthy, Willard H. *4029
Frankowski, K.; et al. *11721
Krauth, J.; et al. 14302
Krishnaiah, P. R.; et al. (*11653)
(Odeh, R. E.) *11721
(Owen, D. B.) *11721
Schuurmann, F. J.; et al. (*11653)
(Shrikhande, S. S.) *4029
Sobel, Milton; et al. *11721
(Speckman, Janace A.) *4029
Steinebach, J.; et al. 14302
Uppuluri, V. R. R.; et al. *11721
Dirichlet distribution *11721
Selected tables in mathematical statistics, Vol. IV *11721
Statistics, mathematical *11721
Tables: Multivariate *F* distribution (*11653),*11721

65—XX NUMERICAL ANALYSIS

Carpenter, John A. *14303
Bibliography: Numerical algebra *14303
KWIC index for numerical algebra *14303

65-01 *Elementary exposition (collegiate level)*

Baumann, Wilhelm *1530
La Porte, Michel; et al. *11722
Vignes, Jean; et al. *11722
(Wilkinson, J. H.) *11722

65-02 *Advanced exposition (research surveys, etc.)*

Cuculescu, Ion *11723
Hovanessian, S. A. *4030
Marčuk, G. I. *11724
Stetter, Hans J. *1531

65-03 *Historical*

Traub, J. F. 4031
Anniversary: Association for Computing Machinery, 25th 4031

65-06 *Collections of papers; proceedings of conferences*

(Čekalin, A. N.) *11725
(Hoffmann, F.) (*2471)
(Lesniak, L.) (*2471)
(Mullin, R.) (*2471)
(Reid, K. B.) (*2471)
(Stanton, R.) (*2471)
Combinatorics (*2471)
Computing (*2471)
Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) (*2471)
Graph theory (*2471)
Numerical methods in problems of technology and economics *11725
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) (*2471)
Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) (*2471)

65A05 Tables

(Abramowitz, Milton) 4033-4041
Björk, Harry 4033
(Blake, J. R.) 4050
Bradley, Lee C. 4045
(Byrd, P. F.) 4042
Caslin, James C.; et al. 4035
(Comrie, L. J.) *4032
Corrington, Murlan S. 4043
Denman, H. H.; et al. 4034
Eilbeck, J. C. (3040)
Emaus, B. D.; et al. 4034
(Erdélyi, A.) 3040-3045,4051-4054,14304
Fettis, Henry E. (3041),4042,4044, 4050,4051,6442
(Friedman, M. D.) 4042
(Glasser, M. L.) 4050
Goldberg, Karl; et al. (2476)
(Gradšteĭn, I. S.) 4043-4049
Guttman, Lester 4036
(Hansen, E. R.) 4050
(Hrenov, L. S.) *4032
Judenkov, V. A. *4055
Kahaner, D. K. 6443
Katzin, Martin (3042,3046),4052
Kölbig, K. S. (3043)
Konowalow, Daniel D.; et al. 4046
Krylov, V. I.; et al. *6444
Leighton, Frank Thomson; et al. (2476)
MacKinnon, Robert F. 4047
(Magnus, W.) (3040-3047), 4051-4054,14304
McDowell, Robin S. 4037
Muhlhausen, Carl; et al. 4046
Nash, J. C. 4048,4053
Newman, Morris; et al. (2476)
(Oberhettinger, F.) (3040-3047),4051-4054,14304
Oji, Akin; et al. 4049
(Patrick, M. L.) 4050
Prabhu, Swarnalata *1532
(Ryžik, I. M.) 4043-4049
Sadiju, J.; et al. 4049
Saton, H. (3044)
Scherzinger, Ann; et al. 14304
Secrest, Don; et al. 14304
Skovgaard, Ove (3045,3047),4038
(Soni, R. P.) (3046,3047)
(Stegun, Irene A.) 4033-4041
Stein, Josef 4039
Strecok, Anthony J. 4040
(Tricomi, F. G.) (3040-3045),4051-4054,14304
Vorob'eva, A. A.; et al. *6444
(Wood, V. E.) 4041,4050,4054
Zuckerman, Susan Lana; et al. (2476)
Barlow's tables of squares, cubes, square roots, cube roots and reciprocals of all integers up to 15000 *4032
Formulas and theorems for the special functions of mathematical physics (3047)
Handbook of mathematical functions with formulas, graphs, and mathematical tables 4033-4041
Table errata (3040-3047), 4033-4049,4051-4054,14304
Tables:
Computation of the integrals of functions with power singularities *6444
Incomplete beta function *1532
Integral transforms, Vol. I 4051
Integrals, series, and products 4049
Normal distribution *4055
Squares, cubes, square roots, cube roots and reciprocals of all integers up to 1500 *4032

65Bxx Acceleration of convergence

65B05 *Extrapolation to the limit, deferred corrections*

Engels, Hermann 1533
Spline-Funktionen (Vorträge and Aufsätze, 1973) 1533

65B10 *Summation of series*

Brezinski, C. 9034
Hlawka, Edmund (5153)
Streit, Roland F. 9035
Svin'in, S. F. (10944)
Collection of articles dedicated to Carl Ludwig Siegel on the occasion of his seventy-fifth birthday, I (5153)

65B15 *Euler-MacLaurin formula*

Iwata, Giiti 14305

65B99 *None of the above, but in this section*

Johnson, L. W.; et al. 6445
Riess, R. D.; et al. 6445
Schmitt, Bernhard 4056
Shaw, J. K.; et al. 6445
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 4056

65Cxx Numerical simulation (See also 68A55.)

65C05 *Monte Carlo methods*

Čekalina, G. V.; et al. 6446,6447
Fatkin, Ju. M.; et al. 6446,6447
Gebhardt, D. 1534
Hlawka, Edmund (12696)
Hordijk, Arie; et al. (11690)
Iglehart, Donald L.; et al. (11690)
Koziara, Jan 11726
Kronberg, A. A. 1535
Linnik, I. Ju. (11563)
Mitchell, Bill 6448
Okamoto, Masashi 9036
Schassberger, Rolf; et al. (11690)
Siegmund, D. (6410)
Suškov, V. S. (14280)
White, Brian E. (5162)
Zieliński, Ryszard *4057

65C10 *Random number generation*

Bersteĭn, M. S.; et al. 9037
Blood, F. A., Jr. 4058
Chambers, J. M.; et al. 4059
Fishman, George S. 6449
Mallows, C. L.; et al. 4059
Maurin, J. *11727
Niederreiter, Harald (7416)
Romankevič, A. M.; et al. 9037
Sowey, E. R. 11728
Stuck, B. W.; et al. 4059
Wallace, C. S. 14306
Zieliński, Ryszard *4060
Bibliography: Random number 11728

65C99 *None of the above, but in this section*

Arnason, A. N. 6450
Cheng, R. C. H. 1536
Heĭsin, V. E. 1537
Milnes, Harold Willis 1538
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 6450

65Dxx Numerical approximation (Primarily algorithms; for theory, see 41—XX.)

65D05 *Interpolation*

Barnhill, R. E.; et al. 9038
Barrow, David L.; et al. 1539
Berger, Gerd; et al. 11729
Delvos, F.-J.; et al. 1540
Gregory, J. A.; et al. 9038
Hall, Charles A. 4061,6451
Inselberg, A. 9039
Jerome, Joseph; et al. 9040
Kaljaev, A. V.; et al. 14307
Kaper, Hans G.; et al. (797)
Knoop, H.-B 9041
Kösters, H.-W.; et al. 1540
Leaf, Gary K.; et al. (797)
Lindeman, Arthur J.; et al. (797)
Lyche, Tom 11730
Mansfield, Lois 11731
Marx, Manfred; et al. 11729
Matuszů, Josef; et al. 11732
McLeod, R. 14308
Mutafelija, Boris A.; et al. 6451
Novák, Josef; et al. 11732
Pierce, John; et al. 9040
Platonov, V. A.; et al. 14307
Šafran, E. Ju.; et al. 14307
Stroud, A. H.; et al. 1539
Tsuda, Takao 9042
Collection: Walsh, J. L. 9040
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) 4061
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 9041

65D10 *Smoothing, curve fitting*

Böhm, W. 14309,14310
Braverman, V. Ja.;et al. (3979)

Clark, James H. (4216)
Debehogne, H. (6885)
Diefenbach, L. (3983)
Fomičov, O. O.; et al. (3979)
Gaffney, P. W. 4062
Greville, T. N. E. 6452
Jupp, D. L. 9043
Liou, Ming-Lei 4063
Mammitzsch, Volker; et al. *14311
Martinelli, M. R. 9044
McLeod, R. 1541
Mekler, S. G.; et al. 4064
Pavlov, N. V.; et al. 4064
Richter, Hans; et al. *14311
Schumaker, Larry L. 14312
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) 14312
Optimization (Proc. Sem., Austral. Nat. Univ., Canberra, 1971) 9043

65D15 *Algorithms for functional approximation*

Brezinski, Claude 6453
Chui, Charles K. 14313
Cléroux, Robert; et al. 4065
Deczky, Andrew G. (7118)
Elliott, D. 9045
Finlayson, H. C. (821)
Heindl, Gerhard 6454
Hilgers, Hubert; et al. 4066
Hitotumatu, Sin 11733
Kacnelsons, L.; et al. 14317
Knauff, W. (906)
Leung, K. V. 14314
Loeb, Henry L.; et al. 4066
März, Roswitha 14315
McConalogue, Denis J.; et al. 4065
Mikloško, J. 6455
Neizvestnyĭ, M. M. 14316,14317
Pavlidis, Theodosios 6456
Rice, John R. 1542,(13392)
Schaback, R. (13418)
Schwartz, W. 1543
Ugulava, D. K. 1544
Winograd, S. 11734
Yuen, C. K. 14318
Zeller, K. (3224)
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) 1542,11734
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) (13418),14313
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 9045
Latvian mathematical yearbook, 17 14316,14317
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 1543
Proceedings of the Manitoba Conference on Numerical Mathematics, Second (Univ. Manitoba, Winnipeg, Man., 1972) 14314
Questions on numerical mathematics and programming 1544
Spline-Funktionen (Vorträge und Aufsätze, 1973) 4066,6454
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard Schmidt) (13392)
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 11733
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) (906,3224)

65D20 *Computation of special functions, construction of tables*

Amante, P.; et al. 9046
Armstrong, B. H.; et al. 1546
Blagovescens'kiĭ, Ju. V.; et al. 1545
Blair, J. M.; et al. 9047
Chelazzi, Mirko 9048
Cusimano, M.; et al. 9046
Dang, N. D. P.; et al. 1547
Dave, J. V.; et al. 1546
Derenzo, Stephen E. 11735
Didkovskiĭ, V. N.; et al. 14319
Eckhardt, Ulrich 9049
Eder, E. 6457
Edwards, C. A.; et al. 9047
Geĭm, Ju. A.; et al. 14319
Johnson, J. H.; et al. 9047
Latham, W. P.; et al. 6458
Longman, I. M. 9050
MacPhie, R. H.; et al. 6459
Midy, P. 9051
Piessens, R.; et al. 1547
Popov, B. A.; et al. 1545
Redding, R. W.; et al. 6458
Schett, A. 11736
Sinha, B. P.; et al. 6459
Soljanik, V. F.; et al. 14319
Sookne, David J. 9052-9055
Temme, N. M. 1548
Tesler, G. S.; et al. 1545
Theocaris, P. S.; et al. 11737
Tortorici, M.; et al. 9046
Tsamasphyros, G.; et al. 11737
Bibliography: Laplace transform inversion 1547

65D30 *Numerical integration, quadrature, cubature, etc.*

Abdu Selim, Michel 1549
Abramovici, Flavian 1550
Anderson, L. A.; et al. 11738
Apaĭčeva, L. A.; et al. 14320
Barrar, R. B.; et al. 4067
Bojanov, Borislav D. (819,5698)
Brombeer, R. 6460
Cadete, Maria Odete Rodrigues *6461
Chawla, M. M.; et al. 1558,4068
Cicenia, R. A. 1551
Cléroux, Robert; et al. (4065)
Dagnino, C.; et al. 11739
Domorjad, A. P.; et al. 6462
de Doncker, E.; et al. 14321
Engels, H. *11740
Gatteschi, L.; et al. 6463
Gautschi, W.; et al. 11738
Gautschi, Walter 11795
Girsovits, J.; et al. (5701)
Granovskiĭ, B. L. 1552
Griffith, J. S. 6464
Haegemans, Ann 4069
de Hoog, F. R. 11741
Howell, T.; et al. 6466
Isenberg, C. 6465
Isomoto, Yukuo 1553
Jayarajan, N.; et al. 1558,4068
Jetter, K. 9056
Jõgi, A. 1554
Koeda, Shozo 1555
Kosjuk, S. D.; et al. 6462
Krylov, V. I.; et al. (*6444)
Lerda, F.; et al. 11739
Lether, Frank 14322,11742
Levin, M. I.; et al. (5701),9057
Locher, F. 14323
Loeb, H. L.; et al. 4067
Lyness, J. N.; et al. 6466
McConalogue, Denis J.; et al. (4065)
Meinguet, Jean (10956)
Mikloško, Jozef 1556
Monegato, G.; et al. 6463
Monkhorst, Hendrik J.; et al. (6837)
Osgood, Charles F.; et al. 6467
Pack, James D.; et al. (6837)
Panasovič, V. O.; et al. 1557
Piessens, R.; et al. 1558,14321
Ramazanov, M. D. (13420)
Rice, John R. 9058a-c
Riess, R. D. 1559
Rodrigues, A. J. 1560
Roghi, Gino 9059
Salihov, G. N.; et al. (2801)
Salzer, Herbert E. 14324
Šariphodžaeva, F.; et al. (2801)
Shisha, Oved; et al. 6467
Stein, S. K. 6468
Velev, G. D.; et al. 14320
Vinardi, G.; et al. 6463
Vojtíšek, L. V. 9060
Vorob'eva, A. A.; et al. (*6444)
Wang, Jesse Y. 6469
Werner, Helmut; et al. 4067
Winograd, Shmuel 4070
Wynn, P. (3210)
Žamalov, Z. Ž. 11743
Zaremba, S. K. 11744
Bibliography:
Automatic integration 14321
Numerical quadrature and curvature *11740
Boundary value problems for differential equations, 3 11743
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 11741
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 9058a
Mathematics and theoretical mechanics, VI 9057
Mathematics and theoretical mechanics, VIII 1554
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln 14323
Proceedings of the Manitoba Conference on Numerical Mathematics, 1971 6464
Spline-Funktionen (Vorträge und Aufsätze, 1973) 9056
Tables: Computation of the integrals of functions with power singularities (*6444)
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974)(10956)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 6460

65D99 *None of the above, but in this section*

Bohman, Harald 6470
Kasprzak, W.; et al. 1561
Luke, Yudell L. 4071
Lysik, B.; et al. 1561
Moore, R. E. 9061
Parthasarathy, R.; et al. 1562
Rozov, Ju. L.; et al. (12277)
Singh, Harpreet; et al. 1562
Ulickiĭ, M. B.; et al. (12277)
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary Alta., 1975; dedicated to the memory of Eckard Schmidt) 4071

65E05 Numerical methods in complex analysis (potential theory, etc.) (For numerical methods in conformal mapping, see 30A28.)

Ellacott, S.; et al. 1563
Hitotumatu, Sin 1564
Hoang Duc Nguyen; et al. 14327
Hofmann, Reinhard 14325
Kaul, Veena 14326
Kokoulin, V. I.; et al. 1566
McDonald, Alvis E. (*6485)
Mersereau, Russell M. 1565
Niethammer, W. (1615)
Schincke, Erich; et al. 14327
Tolstobrova, N. I.; et al. 1567
Večeslavov, V. V.; et al. 1566,1567
Williams, Jack; et al. 1563
Numerische Methoden bei Differentialgleichungen und mit funktionalanalytischen Hilfsmitteln (1615)

65Fxx Numerical linear algebra

(Marčuk, G. I.) *6471
All-Union Conference on Numerical Methods of Linear Algebra, Third (Novosibirsk, 1973) *6471
Linear algebra *6471
Numerical methods of linear algebra *6471

65F05 *Direct methods for linear systems and matrix inversion*

Arora, J. L. 9062
Barwell, Victor 6472
Cantoni, A. 1568
Diamond, Martin 9063
Edelmann, Hans (331)
Fischer, D.; et al. 4072
Gabriel, Richard 9064,14328
George, Alan; et al. 6472
Golub, G; et al. 4072
Griss, Martin L. 4073
Grüner, K. (1579)
Hald, O.; et al. 4072
(Hoard, R. E.) (2679)
Hsieh, Hsueh Y. 14329
(Huband, F. L.) (2679)
Ilioi, C. 14330
Leiva, C.; et al. 4072
Ma, Êrh Chieh 9065
Musa, F. A. (4145)
Simaan, M. (2679)
Vinař, Jan 9066
Widlund, O.; et al. 4072
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 1568
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) (1579)

65F10 *Iterative methods for linear systems* [*See also* 65N20.]

Albrand, Hans-Jürgen 11745
Apokorina, V. S.; et al. 11746
Berman, Abraham; et al. (330)
Cantoni, Antonio; et al. 11747
Četveruškin, B. N. 4074
Il'in, V. P. 14331
Krishnamurthy, E. V.; et al. 11748
Kwong, Ken C. K.; et al. 11747
Lebedev, V. I.; et al. 11746
Mikloško, Jozef 14332
Mišutin, V. G.; et al. 14333
Neumann, Michael; et al. (330)

65F10 *Continued*

de Pillis, J. 4075,11749
Prabhu, S. S.; et al. 11748
Schmidt, J. W. (1596)
Woźniakowski, H. (9077)
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) (9077)
Numerical methods of linear algebra 11746

65F15 *Eigenvalues, eigenvectors*

Chu, Yee Yeen; et al. 1572
Danloy, B. 4076
Falk, S. 1569
Fam Van At 14334
Fiedler, H. (2695)
Golub, G. H.; et al. 1570
Kreyszig, Erwin; et al. 14335
Lacoss, R. T.; et al. (11788)
McCormick, S. F. 1571
Papaconstantinou, C. 6473
Ris, Frederic N. 14336
Rudisill, Carl S.; et al. 1572
Ruhe; A. 4077
Shakal, A. F.; et al. (11788)
Thompson, R. C. (12805)
Todd, John; et al. 14335
Vahrenkamp, Richard 9067
Wilkinson, J. H. 14337
Wilkinson, J. H.; et al. 1570
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 14336
Numerische Behandlung von Eigenwertaufgaben (Oberwolfach, 1972) 4077
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) (2695)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 14337
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1569

65F20 *Overdetermined systems, pseudoinverses*

Baksalary, J. K.; et al. 9068
Bersenev, S. M.; et al. 14338
Cadzow, James A. 6474
Deĭnezenko, A. L.; et al. 14338
Dobek, A.; et al. 9068
Džumaev, S. (4090)
Kala, R.; et al. 9068
Sablin, N. I.; et al. 14338
Sautter, W. (7494)
Tanabe, Kunio 4078
Wang, Chung Lie 1573
Numerical methods of linear algebra 14338
Theory of approximation, with applications (Proc. Conf., Univ. Calgary, Calgary, Alta, 1975; dedicated to the memory of Eckard Schmidt) 1573

65F25 *Orthogonalization*

Barakat, Richard; et al. 4079
Bar-Itzhack, I. Y.; et al. 1574
Fox, Herbert L.; et al. 4079
Fuhrmann, P. A.; et al. 1574
Meyer, J.; et al. 1574
Morphy, N. J.; et al. 11750
Stanton, R. G.; et al. 11750

65F30 *Other matrix algorithms*

Duff, I. S.; et al. 14339
Erisman, A. M.;et al. 14339
Frumkin, M. A. 14340
Gentleman, W. M.; et al. 1575
Hemmerle, W. J.; et al. 1576
Johnson, S. C.; et al. 1575
Lorens, J. A.; et al. 1576
Powers, David L. 14341
Reid, J. K.; et al. 14339
Shieh, L. S. 14342
Shieh, L. S.; et al. 14343
Wei, Y. J.; et al. 14343
Willoughby, Ralph A. 6475
Yates, Robert; et al. 14343
Numerische Methoden bei graphen-theoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) 6475

65F35 *Matrix norms, conditioning, scaling* [*See also* 15A12, 15A60.]

Barker, George Phillip (12812)
Bauer, F. L. 6476
Gautschi, Walter 14344
Lemeire, Frans 14345
Merikoski, Jorma (10303)
Montemayor, J. J.; et al. (342)
Womack, Baxter F.; et al. (342)
Collection: Householder, Alston S. 6476

65F99 *None of the above, but in this section*

Borowsky, Michael S. 6477
Brockett, Roger W.; et al. (4174)
Dobkin, David; et al. (4174)
Platzöder, L. 6478
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (4174)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 6478

65G05 Roundoff error

Appelt, W. 6479
Baker, P. W.; et al. 11751
Bohlender, Gerd 4080
Brent, R. P. 9069
Chan, Oliver W. D.; et al. 1577
Delves, L. M.; et al. 1578
Freeman, T. L.; et al. 1578
Grüner, K. 1579
Henrici, Peter (*11796)
James, David V. 6480
Jury, Eliahu I.; et al. 1577
Krier, Norbert *1580
Kulisch, Ulrich *14346
La Porte, M.; et al. 1581
Linnainmaa, Seppo 9070
McCrea, P. G.; et al. 11751
Miller, Webb 11752
Thompson, B. W. 14347
Vignes, J.; et al. 1581
Yamashita, Shin-ichiro 4081
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 9069,14347
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 1581
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) 11752
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1579,4080,6479

65Hxx Nonlinear algebraic or transcendental equations

65H05 *Single equations*

Anderson, B. D. O.; et al. 9071
Andrew, A. L. 11753
Aprile, G.; et al. 9072
Arrigo, M.; et al. 6486a-b
Bachmann, Karl-Heinz 14348
Borovs'ka, T. T.; et al. 4084
Bose, N. K.; et al. 9071
Brent, Richard P. 9073
Broyden, C. G.; et al. 6483
Derendjaeva, O. V. 6481
Esser, H. 1582
Ferguson, Helaman Rolfe Pratt 4082
Ford, J. A. 6482
Ford, J. A.;et al. 6483
Gonnet, Gaston H. 11754
Hillion, Pierre 9074
Ivanova, S. A.; et al. 6484
Janke, Werner 14349
Jury, E. I.; et al. 9071
Kahaner, D. K. (6443)
King, R. F. 4083
Koljada, Ju. V.; et al. 4084
Kung, H. T.; et al. 1583
Lepina, E. I.; et al. 6484
Lepins, A.; et al. 6484
McDonald, Alvis E. *6485
Patrick, Merrell L.;et al. 9075
Raimondi, T.; et al. 9072
Recknagel, Rolf-Dieter; et al. 14351
Ricca, G.; et al. 6486a-b
Saari, Donald G.; et al. 9075
Šafiev, R. A. (1595)
Shannon, A. G. 11755
Sigorskiĭ, V. P.; et al. 4084
Stepleman, Robert S. 9076
Stewart, G. W., III 4085
Suharev, A. G. 14350
Traub, J. F.; et al. 1583
Vostrý, Zdeněk 11756
Wallisch, Walter; et al. 14351
Woźniakowski, H. 9077,11757
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) 9073,9077,11757
Approximate solution of boundary value problems and of functional equations 6481

65H10 *Systems of equations*

Adler, R. J.; et al. 6491
Avila, J. H., Jr. 6487
Branin, F. H., Jr. 6488
Brezinski, C. 1584
Celigorov, N. A.; et al. 14353
Dennis, J. E., Jr. 11758
Gergely, J. 4086
Haneda, Hiromasa; et al. 1585
Ishii, Takeo; et al. 1585
Kellogg, R. B.; et al. 4087
Kurčenko, T. S.; et al. *1586
Kurpel', M. S.; et al. *1586
Li, T. Y.; et al. 4087
Luong, N. Xuan 6489
Malozemov, V. N. (4100)
Maruhashi, Toru; et al. 1585
Moré, J. J.; et al. 6490
Polak, E. 14352
Serkov, V. I.; et al. 14353
Sloboda, Fridrich 14354
Spedicato, E. 11759
Trangenstein, J. A. 6490
Wu, C. L.; et al. 6491
Yorke, J.; et al. 4087
Nonlinear programming (Proc. Sympos., New York, 1975) 11758

65J05 Numerical analysis in abstract spaces

Alefeld, G. 14355
Anton, Howard; et al. 1587
Aširov, S.; et al. 1588
Astrahancev, G. P. 11760
Atdaev, S.; et al. 1588
Baker, George A., Jr.; et al. 4088
Bakušinskiĭ, A. B. 11761
Barnsley, M. F.; et al. 4088
Borowsky, Michael S. (6477)
Černyšenko, D. N. 11762
Chen, Y. M.; et al. 14356
Chenais, Denise 11763
Comte, Pierre 4089
Comte, Pierre; et al. 11764
Crouzeix, Michel; et al. (14377)
Daniel, James W. 1589
Dorofeev, I. F. 11765
Drahlin, E. H. 11766
Duris, C. S.; et al. 1587
Džumaev, S. 4090
Eckhardt, U. (14411)
Fenyő, István 6492
Gabdulhaev, B. G. 11767
Gajewski, Herbert; et al. (11124)
Gaponenko, A. L.; et al. 9078
Gaponenko, Ju. L. 1590
Gaponenko, Ju. L.; et al. 9078
Gorbunov, A. D. (1034)
Grigorieff, Rolf Dieter (3526,11082a-c)
Gröger, Konrad; et al. (11124)
Gudovič, N. N. 11768
Hoyer, Wolfgang 14357
Jankowski, Tadeusz 14358
Kacewicz, B. 11769
Karma, O. O. 4091
Kleinmichel, Helmut 11770
Krawczyk, R. 6493
Kuhnert, F. 14359
Kurčatov, V. A. 1591
Kusakin, I. A. 4092
Li, Tien Yien (811)
Lika, D. K. *6494
Liskovec, O. A.; et al. 11771
Locker, John 6495
Luong Nhuan Xuan 9079
Madorskiĭ, V. M. 1592,1593
Maess, G. 14360
Miel, George 14361
Miellou,Jean-Claude;etal. 11764
Mönch, Wolfgang 14362
Morozov, V. A. 11772
Nauber, W.; et al. 6496
Nickel, Karl L. 1594
Oberländer, Siegfried 11773
de Pillis, J. (4075)
Raviart, Pierre-Arnaud; et al. (14377)
Reddien, G. W. 9080
Safiev, R. A. 1595
Savčuk, V. F.; et al. 11771
Schmidt, Jochen W. 1596
Schmidt, Jochen W.; et al. 6496
Schneider, Manfred 14363
Schröder, Gunnar 1597
Šengelija, Z. I.; et al. 14364
Sonntag, Yves 9081
Spiteri, Pierre; et al. 11764
Surmont, J.; et al. 14356
Tanana, V. P. 6497
Tanana, V. P.; et al. 11774
Timonov, A. A.; et al. 11774
Trenogin, V. A.; et al. 14364
Voss, H. 1598
Wozniakowski, H. 6498
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) 11769
Collection: Norden, Aleksandr Petrovic 11767

65J05 *Continued*

Collection:
Schmidt, Adam 6492
Methoden und Verfahren der mathematischen Physik, Band 7 6493
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 14359
Studied in contemporary problems of summability and approximation of functions, and their applications 11762
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) 1589

65K05 Mathematical programming and optimization techniques {Computational aspects; for algorithms and theory, see 49Exx and 90Cxx.}

Abaffy, József 1599
Ahmed, N. U. 1600
Alekseev, O. G.; et al. 1601
Alekseeva, S. M.; et al. 1601
Anderssen, R. S. 11775
Arora, J. S.; et al. 11779
Baĭramov, A. M.; et al. 14369
Bandler, J. W.; et al. 4096
Beale, E. M. L. 4093
Bertsekas, Dimitri P. 4094
Boggs, Paul T. 4095
Buckley, A. G. 6499
Bukreev, V. Z. 9082
Chandé, R.; et al. (9277)
Charalambous, C.; et al. 4096
Choit, Mark; et al. 6506
Cox, Jerome R., Jr.; et al. 4101
Daniel, James W. (1589)
Davidon, W. C. 6500
Dessĭ, N.; et al. 11776
Eckhardt, U. 14411
Ehlert, J. (3551a-b)
Fedorenko, R. P. (4629)
Fortuna, Zenon 6501
Gaĭkov, N. E. 11777
Gansin, G. S. 14365
Glover, Fred; et al. 6502
Goldfarb, Donald 11778
Gorbatenko, V. N. 4097
Greenberg, Harold 14366
Guigou, J. 9083
Guseva, O. V. (9672)
Hardy, J. W. 6503
Hassan, Mohamed; et al. 1604
Haug, E. J., Jr.; et al. 4098a-b, (9277), 11779
Huntley, E.; et al. 9084
Ivanov, V. V. 4099, *14412
Katz, P. L. 6504
Kleinmichel, Helmut; et al. 14367
Klingman, D.; et al. 6502
Köhler, Jürgen 6505
Lenard, Melanie L. 14368
Litvak, M. L.; et al. 14369
Maillard, C. 11780
Malozemov, V. N. 4100
Manca, M. G.; et al. 11776
Markham, Joanne; et al. 4101
Matsui, K. 11779
McCausland, Ian; et al. 4103
Meerov, M. V.; et al. 14369
Mekler, S. G.; et al. (4064)
Melamud, I. N. 1602
Merten, K. 11781
Milnes, Harold Willis (1538)
Misra, A. D. 4102
Mittelmann, H. D. 11782
Mizukami, Koichi; et al. 4103
Mossino, J. 11783
Nair, G. Gopalakrishnan 4104
Neyama, Jun; et al. 4103
Nurminskiĭ, E. A.; et al. 1603
Oren, Shmuel S. (12218), 14370
Pan, K. C.; et al. 4098a-b
Pavlov, N. V.; et al. (4064)
Potter, James E.; et al. 14373
Powell, M. J. D. 14371
Priemer, R.; et al. 11785
Rim, K.; et al. (9277)
Roux, J. 11784
Sadowski, Horst; et al. 14367
Safro, V. M. 14372
Schrack, Günther; et al. 6506
Schwetlick, Hubert 4105
Singh, Madan G. 1604
Snyder, Donald L.; et al. 4101
Speyer, Jason L.; et al. 14373
Stamm, J. C.; et al. 11785
Stephanopoulos, George; et al. 4106
Streeter, T. D.; et al. 4098a-b
Stoer, Josef 1605
Stojan, Ju. G. (*13733)
Tapia, R. A. 1606
Turner, P. R.; et al. 9084
Varga, József (*4673)
Westerberg, Arthur W.; et al. 4106
Womble, M. Edward 14373
Yeo, B. P. 9085
Želihovskiĭ, A. A. 1603
Žilinskas, A. G. 4107
Computational practice in mathematical programming 4093
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 4105
Mathematical programming: a collection of articles 14370
Nonlinear programming (Proc. Sympos., New York, 1975) 14371
Numerical methods of linear algebra (4629)
Optimization (Proc. Sem., Austral. Nat. Univ., Canberra, 1971) 11775
Software of electronic digital computers (Proc. Second Math. School, Kaciveli, 1971) 4099
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) (1589)
Towards global optimisation (Proc. Workshop, Univ. Cagliari, Cagliari, 1974) 6503
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 11781, 11782

65Lxx Ordinary differential equations

65L05 *Initial value problems*

Adam, Gh.; et al. 6507
Ames, W. F.; et al. 1607
Artem'ev, S. S. 1608
Bachmann, Karl-Heinz 14374
Barnes, E. R.; et al. 14375
Bernstein, Barry; et al. (1873)
Butcher, J. C. 1609, 14376
Chipman, F. H. 9086
Chŏng, Chae Pu 9087
Costabile, F. 4108
Crouzeix, Michel; et al. 14377
Gasanov, N. M. 1610
Ginsberg, M.; et al. 1607
Gorbunov, A. D.; et al. 9088
Goroško, O. O.; et al. 4109
Gupta, G. K. 11786
Gupta, R. G. 1611
Henry, Myron S.; et al. 1612
Hobot, Graŭyna 4111
Ibragimov, V. R. 1613
Ixaru, L. Gr.; et al. 6507
Jain, R. K. 14378
Juldašev, Z. H.; et al. 6508, 11787
Kalmykov, S. A.; et al. 6508, 11787
Lacoss, R. T.; et al. 11788
Lambert, J. D. *11789, 14379
Lavan, Zalman; et al. (1873)
Linkovskiĭ, Ž. B.; et al. 1623
Liu, Sung T'ien 11790
Madzagua, Z. K.; et al. (632)
Miranker, W. L.; et al. 11791
Morel, Josette; et al. (1873)
Murphy, W. D. 14380
Nassif, N. R. 1614
Niethammer, W. 1615
Orlov, K.; et al. 1616
Pasciutti, F.; et al. 1617
Pavlov, B. V.; et al. 6509
Pospelov, V. V.; et al. 9088
Povzner, A. Ja. 6509
Raspopov, B. M. 4112
Raviart, Pierre-Arnaud; et al. 14377
Rive, L. Dalle; et al. 1617
Roscoe, D. F. 1618
Russell, D. L.; et al. 14375
Šahov, Ju. A. 1619
Scherer, R. 1620
Ševčenko, V. M. 4110
Ševčenko, V. M.; et al. 4109
Shakal, A. F.; et al. 11788
Shampine, L. F.; et al. 1621, 1636
Šokin, Ju. I.; et al. 6508, 11787
Spasokukockaja, S. A. (633)
Stetter, Hans J. *14381
Stojanović, M.; et al. 1616
Strehmel, Karl 14382, 14383
Stummel, Friedrich 9089
Taufer, Jiří 9090
Thelidze, M. G.; et al. (632)
Van Dooren René 1622
Vilkova, L. P.; et al. 1623
Vitásek, E. 9091
Wahba, G.; et al. 11791
Wang, Tan Chih (10771)
Wanner, Gerhard 4113
Watts, H. A.; et al. 1621, 1636
Wiggins, Kenneth L.; et al. 1612
Windisch, Günther 14384
Wouk, Arthur 11792
Application of functional methods to the boundary value problems of mathematical physics 9090, 9091
Asymptotic and qualitative methods in the theory of nonlinear oscillations 4109, 4110
Computational mechanics (Internat. Conf. on Computational Methods in Nonlinear Mech., Austin, Tex., 1974) 1607
Conference on the Numerical Solution of Differential Equations (Dundee, 1973) 14379
Équations différentielles et fonctionnelles non linéaires 1622
Numerische Methoden bei Differentialgleichungen und mit funktional-analytischen Hilfsmitteln 1609, 1615, 1625
Proceedings:
Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 1614
Manitoba Conference on Numerical Mathematics, 1971 14378
Questions of computational mathematics (A collection dedicated to the memory of Mel'bar Barnabovič Gagua) 1619
Questions on numerical mathematics and programming (632)
Software of electronic digital computers 1623
Spectrum of mathematics (Essays presented to H. G. Forder) 14376
Symposium on Ordinary Differential Equations (Univ. Minnesota, Minneapolis, Minn., 1972; dedicated to Hugh L. Turrittin) 14375
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 9089, 11793
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 1620

65L10 *Boundary value problems*

Balajan, N. M.; et al. 1624
Barnsley, M. F.; et al. (7932)
Celmiņš, Aivars 1632
Colautti, Maria Pia 9092
Fage, M. K. 4114
Forster, P. 1625
Fujii, Masatomo 14385
Golberg, Michael A. 9093
(Haas, W. R.) 1632
Haas, Willard R. 1631
Jarcev, Ju. 1626
Keller, H. B.; et al. 1627
Keller, Joseph B. (10737)
Kösters, H.-W.; et al. 1628
Kovalenko, S. P.; et al. (5526)
Kreiss, Heinz-Otto 4115
Küpper, Tassilo 4116
Lautala, P. A. J. 6512
Litvin, O. M.; et al. (5526)
Macconi, M.; et al. 6510
Mahmudov, A. P. 1629
Marks, Tomasz 9094
Matausek, M. R. 6511
McCarthy, Mary Anne; et al. 4117
Molokovič, Ju. M.; et al. 1624
Natterer, Frank 4118
Orava, P. J.; et al. 6512
Pasquali, A.; et al. 6510
Roberts, S. M.; 4122
Robinson, P. D.; et al. (7932)
Saarniĭt, I. R. 4119
Sakai, Manabu 9095
Sapagovas, M. P. 1630
Schloßer, K.-H.; et al. 1628
Scott, Melvin R. 4120
Shipman, J. S.; et al. 4122
Shoosmith, John N. 9096
Tapia, R. A.; et al. 4117
Troesch, B. A. 4121
Urabe, M. 11793
Usmani, Riaz A. 9097
Voss, H. (1598)
Werner, J. (13698)
White, A. B., Jr.; et al. 1627
(Wnek, W. J.) 1632
Wnek, Walter J.; et al. 1631
Mathematics and theoretical mechanics, VI 1626
Numerical methods of linear algebra 4114
Numerical solutions of boundary value problems for ordinary differential equations (Proc. Sympos., Univ. Maryland, Baltimore, Md., 1974) 4120, 9096
Numerische Methoden der Approximationstheorie, Band 2 (13698)
Stiff differential systems (Internat. Sympos., Wildbad, Germany, 1973) 4115

65L15 *Eigenvalue problems*

Day, William B. 1633
Gotusso, Laura; et al. 14386, 14387
Jensen, Paul S. 1634
Kane, T. R.; et al. 11794
Karma, O. 9098

65L15 *Continued*

Rossi, Luisa; et al. 14386,14387
Taylor, D. L.; et al. 11794
Ul'janova, V. I. 14388

65L99 *None of the above, but in this section*

Bright, Peter B.; et al. 9099
Davenport, S. M.; et al. 1636
Gautschi, Walter (11795)
Guru, B. P.; et al. 4124
Henrici, Peter *11796
Iskander-Zade, Z. A.; et al. 14389
Jennrich, Robert I.; et al. 9099
Mosevich, Jack W. 14390
N.-Nagy, F. L.; et al. 4123
Rink, R. A.; et al. 4124
Sergysels, R. 1635
Uraz, A.; et al. 4123
Utepbergenov, M.; et al. 14389
(Wiggens, Alvin D.) 9099
Yarmish, Joshua 14391

65Mxx Partial differential equations, initial value problems

65M05 *Derivation of finite difference approximations*

Ahuja, Raj; et al. 14392
Barrow, David L. 1637
Bhattacharyya, S.; et al. 14392
Ciment, Melvyn; et al. 4125
Foht, O. S. 9100
Fornberg, Bengt 9101
Jain, M. K.; et al. 14392
Kuznecov, N. N.; et al. 4126
Leventhal, Stephen H. 4125
Polak, S. J. 9102
Sachs, A. 9103
Sasaki, Yoshi Kazu 6513
Szepesvári, István 9104
Vološin, S. A. 4126
Boundary value problems of the theory of heat conduction 9100
Numerische Methoden der Approximationstheorie, Band 2 9103

65M10 *Stability and convergence of difference methods*

Abarbanel, Saul; et al. 4127
Brenner, Philip 1638
Gerber, P. D.; et al. 1639
Gottlieb, David; et al. 4127
Greig, I. S.; et al. 6514
Harten, A.; et al. 1640
Hyman, J. M.; et al. 1640
(Keyfitz, B.) 1640
Lax, P. D.; et al. 1640
Malec, Marian 6515
Micchelli, C. A.; et al. 4128
Miranker, W. L.; et al. 1639,4128
Morris, J. Ll.; et al. 6514
Nakagawa, Tomoyasu 11797
Shintani, Hisayoshi 4129
Ta Văn Dĩnh 11798
Thomée, Vidar 14393
Conference on the Numerical Solution of Differential Equations (Dundee, 1973) 14393

65M15 *Error bounds*

Dendy, J. E., Jr. 6516

65M25 *Method of characteristics*

Bendzulla, Claus; et al. 1641
Burk, Frank 9105
Demmig, F. 4130
Dietrich, Wolfgang; et al. 1641
Oelschlägel, Dieter; et al. 1641

65M99 *None of the above, but in this section*

Cannon, J. R.; et al. 4131
Ewing, Richard E.; et al. 4131
Schechter, E. 4132
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 4132

65Nxx Partial differential equations, boundary value problems

Lurina, A.; et al. 14580
Uspenskiĭ, A. B.; et al. 14580
Methods for the solution of boundary value and inverse problems of heat conduction 14580

65N05 *Derivation of finite difference approximations*

Abeljašev, A. I. 1642
Abesadze, L. I.; et al. 1643
Bercun, V. N.; et al. 1644
Bobkova, N. A. 11799
Caldwell, C. S. 1648
Dellavalle, G. 9106
Demetrašvili, N. G.; et al. 1643
Frjazinov, I. V. 4133,4134
Grišin, A. M.; et al. 1644
Kodama, Masao 1645
Lambert, J. D. 1646
Mustafaev, R. A. 11800
Proskurowski, Włodzimierz; et al. 9107
Sastry, S. S. 1647
Widlund, Olof 9107
Mathematical questions, No. 3 1642
Questions of mathematical cybernetics and applied mathematics, No. 1 11800
Topics in numerical analysis, II (Proc. Roy. Irish Acad. Conf., Univ. College, Dublin, 1974) 1646,1658,1664

65N10 *Convergence of difference methods*

Bokov, Aleksandr G.; et al. 14394
D'jakonov, Evgeniĭ G.; et al. 14394
Gekeler, E. 11801
Gekeler, Eckart; et al. 1649
Gentzsch, Wolfgang; et al. 1649
Glušenkov, V. D.; et al. 11802
Hall, C. A.; et al. 4135
Kokoszkiewicz, A. 1650
Komusiewicz, Johann 11803
Lapin, A. V.; et al. 11804,14395
Ljaško, A. D.; et al. 11802,14395
Luczak, R. W.; et al. 4135
Meladze, G. V. 4136
Piro Grimaldi, A. 11805
Serdy, A. G.; et al. 4135
Smirnov, Ju. B.; et al. 11804
Tamme, E. E.; et al. 4137
Valnikko, G. M.; et al. 4137
Žuk, M. V. 4138
Numerische Behandlung von Differentialgleichungen (Tagung, Math. Forschungsinst., Oberwolfach, 1974) 1649
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 1650

65N15 *Error bounds*

Alić, M. 1651
Aliev, G. F. 1652
Ciarlet, P. G. 11806
Čistjakova, E. M. 1653
Faaß, Eberhard *9108
Ford, William H.; et al. 11807
Hlavaček, Ivan 14396
Iskenderov, A. D. 11808
Kulikov, E. L. 6517
Rosser, J. Barkley 1654
Ting, T. W.; et al. 11807
Conference on the Numerical Solution of Differential Equations (Dundee, 1973) 11806
Mathematical analysis, No. 2 1653

65N20 *Solution of difference equations* [*See also* 65F10.]

Arhipova, E. Ju. 6518
Brazier, P. H. 11809
Četveruškin, B. N. (4074)
Ehrlich, L. W. 9109
Fischer, D.; et al. (4072)
Golub, G.; et al. (4072)
Hald, O.; et al. (4072)
Leiva, C.; et al. (4072)
Leung, Kin-Vinh; et al. 4139
Oğuztöreli, Mehmet Namık; et al. 4139
Saylor, Paul E. 9110
Traas, C. R. (*9348)
Widlund, O.; et al. (4072)

65N25 *Eigenvalue problems*

Sačkov, E. G. 14397

65N30 *Rayleigh-Ritz and Galerkin methods*

Atteia, Marc 14398
Aziz, A. K.; et al. 9111
Babuška, Ivo; et al. 9111
Baker, Garth A. 11810
Baker, Garth A.; et al. 11811
Becker, Eric B.; et al. 1671
Berger, Alan E. 4140
Cassell, A. C. 9112
Cavendish, James C. 6519
Chatelin-Laborde, Françoise; et al. 1656
Ciarlet, P. G.; et al. 9113
Dendy, J. E., Jr.; et al. 1657
Descloux, J. 1658
Diguglielmo, Alain 1659
Dougalis, Vassilios A.; et al. 11811
Dunham, Robert S.; et al. 1671
Fairweather, G.; et al. 1657
Falk, Richard S. 9114
(Fix, G.) 9111
Fix, George J. 1660
Fix, George M. 4142
Forster, P. 6520
Geymonat, G. 11812
Glowinski, R.; et al. 1661,6521
Gordon, William J.; et al. 4141
Gorovaja, E. N.; et al. 4143
Hall, Charles A.; et al. 4141
Irons, Bruce M.; et al. 11813
Janovský, Vladimír; et al. 1662
(Kellogg, R. B.) 9111
Lelièvre, Jean 9115
Lemordant, J.; et al. 1656
Lučka, A. Ju.; et al. 1663
Mansfield, Lois (11731)
Marrocco, A.; et al. 1661
Marshall, J. A.; et al. 1664
Mitchell, Andrew R.; et al. 1664
Mittelmann, H. D. 4144
Miyoshi, Tetsuhiko 9116
Mock, M. S. 11814
Mori, Masatake 6522
Musa, F. A. 4145
Nedelec, J.-C.; et al. (11992)
Nicolaides, R. A. 1655
Nitsche, J. 14399
Oden, J. T. 4146
Oden, J. T.; et al. 1665
Olunloyo, V. O. S. 14400
Pian, Theodore H. H. 1666
Pironneau, Olivier; et al. 6521
Planchard, J.; et al. (11992)
Procházka, Petr; et al. 1662
Rannacher, Rolf 11815
Raviart, P.-A.; et al. 9113
Razzaque, Abdur; et al. 11813
Reddy, J. N.; et al. 1665
Rivkind, V. Ja. 4143
Rvačov, V. L.; et al. 1667
Scarpini, F. 14401
Schatz, A. H.; et al. 14402
Slesarenko, A. P.; et al. 1667
Strang, Gilbert 1668,11816
Thatcher, R. W. 4147
Umans'kiĭ, S. Ž. 4148
Vacek, Jiří (716)
Voss, Robert G. 1669
Wachspress, Eugene L. *14403
Wahlbin, L. B. 14402
Wheeler, Mary F. 1670
Wicks, Thomas M.; et al. 1671
Yew, C. H.; et al. 1671
Žuk, M. V.; et al. 1663
Approximation theory, II (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1976) 14402
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 1669,1671
Mathematical foundations of the finite element method with applications to partial differential equations 1660,1666,1668,4140,4141 4146,9111,9113 11813,14399
Methods for the quantitative and qualitative study of differential and integral equations 1663
Numerische Behandlung nichtlinearer Integrodifferential- und Differentialgleichungen (Tagung, Oberwolfach, 1973) 4144
Problems: Mathematical analysis, No. 5 4143
Proceedings: International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 11816
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 6520

65N35 *Collocation and related methods*

Köhler, M. 4149
Prenter, P. M.; et al. 14404
Russell, Robert D. 4150

65N35 *Continued*

Russell, Robert D.; et al. 14404
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 4149

65N99 *None of the above, but in this section*

Aleksandrova, E. A.; et al. 9118
Collatz, L.; et al. 11817
Dessî, N.; et al. (11776)
Frank, Leonid 6523
Günther, H.; et al. 11817
King, J. Th.; et al. 6524
Kozlov, È. S.; et al. 9117
Kronberg, A. A. (1535)
Manca, M. G.; et al. (11776)
Meščerjakov, B. K.; et al. 9117,9118
Meyer, G. H. 11818
Papamichael, N.; et al. 1672
Serbin, St. M.; et al. 6524
Sergeev, N. P.; et al. 9117,9118
Sprekels, J.; et al. 11817
Symm, G. T.; et al. 1672

65P05 Partial differential equations, miscellaneous problems

Berkovič, E. M.; et al. 14405
El-Gendi, S. E. 1673
Furaeva, I. I. 6525
Golubeva, A. A.; et al. 14405
Horgan, Cornelius O.; et al. (5644)
Komkov, Vadim; et al. 6526
Raškinienė, Dana 14406
Svešnikov, A. G. (11993)
Walker, Billy; et al. 6526
Wheeler, Lewis; et al. (5644)
Methods for the solution of boundary value and inverse problems of heat conduction 14405
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11993)

65Q05 Difference and functional equations, recurrence relations

Ansorge, R. 11819
Antippa, Adel F.; et al. 11820
Feldstein, Alan; et al. 14407
Gudovič, N. N. 4151
Guščin, I. S. 11821
Höhn, Werner 4152
Kemper, Gene A. 11822
Klatte, R. 14408
Koseleva, O. N.; et al. 11823
Lange, O. 14409
Lewanowicz, S. 6527
Mihaĭlec', B. M.; et al. 1674
Phares, Alain J.; et al. 11820
Savčenko, L. I.; et al. 1674
van der Sluis, A. 9119
Traub, J. F.; et al. 14407
Valeev, K. G.; et al. 11823
Zielke, R. 1675
Numerische Behandlung von Differentialgleichungen (Tagung, Math. Forschungsinst., Oberwolfach, 1974) 4152
Numerische Behandlung von Eigenwertaufgaben (Oberwolfach, 1972) 1675
Topics in numerical analysis, II 11819
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 14408

65R05 Integral and integro-differential equations

Alieva, A. I.; et al. (5772)
Ames, W. F.; et al. (1607)
Atkinson, Kendall 6528
Boland, W. Robert; et al. 14410
Brunner, H.; et al. 6529
Budak, B. M.; et al. 1676,4153
Chaudhry, Muhammad Anwar 1677
Dziškariani, A. V.; et al. 6530
Gabedava, T. V.; et al. 6530
Gasanov, G. M.; et al. (809)
Ginsberg, M.; et al. (1607)
Groetsch, C. W. (878)
Haymond, R. E.; et al. 14410
Holyhead, P. A. W.; et al. 1678
de Hoog, F. R. (11741)
Jarcev, Ju. 1679
Jeggle, Hansgeorg 1680
Karpenko, L. M.; et al. 6532
Kennebrock, W. (2072)
Knirk, Dwayne L. 1681
Lambert, J. D.; et al. 6529
Linkovskiĭ, Ž. B.; et al. 1685
Mamedov, A. M.; et al. (5772)
Marsh, T.; et al. 1682
McKee, S.; et al. 1678
Micula, G. 1683
Nakashima, Katsuya; et al. 14413
Ohmori, Katsushi; et al. 14413
Pavlov, A. P.; et al. 4153
Poljakov, R. V. 9120
Popov, Vasil A.; et al. (809)
Prößdorf, S.; et al. 9121
Rakotch, E. 1684
Seĭranova, M. I. 6531
Silbermann, Bernd; et al. 9121
Šilman, A.; et al. 6532
Smarzewski, R. 9122
Smith, C. S. (6300)
Solov'eva, E. N.; et al. 1676
Taylor, P. J.; et al. 1678
Tsuruta, Kunio; et al. 14413
Vainikko, G.; et al. 6532
Verlan', A. F. *6533
Vilkova, L. P.; et al. 1685
Wacker, H. J. 1686
Wadsworth, M.; et al. 1682
Windisch, Günther 11824
Collection: Functional analysis, 2 6530
Computational mechanics (Internat. Conf. on Computational Methods in Nonlinear Mech., Austin, Tex., 1974) (1607)
Difference methods of solution of boundary value problems for integro-differential equations 1676,4153
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) (11741)
Iterationsverfahren, Numerische Mathematik, Approximationstheorie 1686
Mathematics and theoretical mechanics, VI 1679
Methoden und Verfahren der mathematischen Physik, Band 16 (2072)
Methods for the quantitative and qualitative study of differential and integral equations 9120
Software of electronic digital computers 1685
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1683

65S05 Graphical methods

Galajda, P. 11825
(Hovanskiĭ, G. S.) *14414
Matsuda, Akira; et al. 4154
Morita, Katuhiko; et al. 4154
Nomographic collection, No. 10 *14414

65T05 Harmonic analysis and synthesis

Bohman, Harald 4155
Deeming, T. J. 1687
Einarsson, Bo 4156
Golovkin, K. K. 4157
Boundary value problems of mathematical physics, 7 4157
Filip Lundberg Symposium on Risk Theory (Stockholm, 1968) 4155

68—XX COMPUTER SCIENCE (For papers involving machine computations and programs in a specific mathematical area, see section —04 in that area.)

Bogart, Kenneth P.; et al. (2553)
Kulisch, Ulrich (*14346)
(Mihaĭlov, A. I.) (*9914)
Trotter, William T., Jr.; et al. (2553)
Zalcstein, Yecheskel (10457)
Bibliography: Information science (*9914)
Information science, Vol. 1 (*9914)
Itogi Nauki i Tehniki (*9914)
Terminology of information science (*9914)

68-01 *Elementary exposition (collegiate level)*

Bagrinovskaja, G. P. *11826
Baumann, Wilhelm (*1530)
Hotz, Günter *1688
Kandkia, P.; et al. *14415
Langmaack, H.; et al. *14415
Stetter, Hans J. (*1531)

68-02 *Advanced exposition (research surveys, etc.)*

Gelenbe, E.; et al. 14416
Muntz, R. R.; et al. 14416
Computer systems 1972 *9123
Symposium on Computer Systems (Univ. Texas, Austin, Tex., 1972) *9123
Texas Symposium on Computer Systems, First (Univ. Texas, Austin, Tex., 1972) *9123

68-03 *Historical*

Zuse, Konrad *1689

68-06 *Collections of papers; proceedings of conferences*

(Aguilar, R.) *1691
(Blum, E. K.) *11828
(Coffman, Edward G., Jr.) *4159
(Fu, K. S.) *6535
(Gelenbe, Erol) *4159
(Gemst, V. K.) *6534
(Glowinski, R.) (*14476)
(Harrison, M. A.) *11828
(Kime, Charles R.) *1693
(Lions, J. L.) (*14476)
(Nivat, Maurice) (*12421)
(Ortega, James M.) *4158
(Pooch, Udo W.) *11827
(Robinet, B.) *6536
(Rounds, William C.) *11828
(Traub, J. F.) *14417
(Viennot, Gérard) (*12421)
ACM Symposium on Theory of Computing, Seventh Annual (Albuquerque, N. M., 1975) *4161
ACM Symposium on Theory of Computing, Eighth Annual (Hershey, Pa., 1976) *4162
ACM-SIGACT Symposium on the Theory of Computing (Albuquerque, N. M., 1975) *11828
Algorithms *6534,(*12421)
Algorithms and complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1976) *14417
All-Union Conference on Software for Analog-Digital Complexes, Third (Sverdlovsk, 1973) *1692
Annual Conference on Computer Graphics, Interactive Techniques and Image Processing, Third - SIGGRAPH '76 (Proc., Wharton School, Univ. Pennsylvania, Philadelphia, Pa., 1976) *11827
Annual IEEE Symposium on Switching and Automata Theory, 16th (Berkeley, Calif., 1975) *1690
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) *1690
Basic theory of programs (Proc. Third Sympos., Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) *4160
Collection: Algorithms and programs, No. 5 *6534
Colloque sur la Programmation (Paris, 1974) *6536
Complexity *14417
Computer graphics *11827
Computer science *1690
Computer science and scientific computing (Proc. Third ICASE Conf., Williamsburg, Va., 1976) *4158
Computing *11828
Computing methods in applied sciences (Second Internat. Sympos., Versailles, 1975) (*14476)
Computing systems 1973 (Proc. Second Texas Conf., Univ. Texas, Austin, Tex., 1973) *14418
Computing systems 1974 (Proc. Third Texas Conf., Univ. Texas, Austin, Tex., 1974) *14419
Computing systems 1975 (Proc. Fourth Texas Conf., Univ. Texas, Austin, Tex., 1975) *14420
Computing systems 1976 (Proc. Fifth Texas Conf., Univ. Texas, Austin, Tex., 1976) *14421
Computing theory *4162
Conference on Computing Systems, Second (Univ. Texas, Austin, Tex., 1973) *14418
Conference on Computing Systems, Third (Univ. Texas, Austin, Tex., 1974) *14419
Conference on Computing Systems, Fourth (Univ. Texas, Austin, Tex., 1975) *14420
Conference on Computing Systems, Fifth (Univ. Texas, Austin, Tex., 1976) *14421
Fault-tolerant computing *1693
Formal languages and programming (Proc. Sem., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) *1691
Foundations of computer science *1690
Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) *9124
Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) *9125
ICASE Conference on Scientific Computing, Third (Williamsburg, Va., 1976) *4158
Image processing *11827
Information systems *4159
Interactive techniques *11827
International Symposium on Computing Methods in Applied Sciences, Second (Versailles, 1975) (*14476)
Japan-U.S. Seminar on Learning Process in Control Systems (Nagoya, 1970) *6535
Journées algorithmiques (École Norm. Sup., Paris, 1975) (*12421)
Machine learning *6535
Modèles, mesures; simulation de systèmes informatiques *4159
Pattern recognition and machine learning (Proc. Japan-U.S. Sem. Learning Process in Control Systems, Nagoya, 1970) *6535
Proceedings of the All-Union Conference on Software for Analog-Digital Complexes, Third (Sverdlovsk, 1973) *1692
Proceedings of the Annual Conference on Computer Graphics, Interactive Techniques and Image Processing, Third - SIGGRAPH '76 (Wharton School, Univ. Pennsylvania, Philadelphia, Pa., 1976) *11827
Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) *9124
Proceedings of the Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) *9125
Proceedings of the Symposium on Basic Theory of Programs, Third (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1973) and of the Workshop for Proof Theory about Algorithms (Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) *4160
Programming *1691
Programming Symposium (Proc. Colloq. Programmation, Paris, 1974) *6536
Programs *4160,*6534
Proof theory about algorithms (Proc. Workshop, Res. Inst. Math. Studies, Kyoto Univ., Kyoto, 1974) *4160
Scientific computing *4158
Seminar on Formal Languages and Programming (Proc., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) *1691
Simulation de systèmes informatiques *4159
Software *1692
Special issue on fault-tolerant computing, 1975 *1693
Symposium on New Directions and Results in Algorithms and Complexity (Proc., Carnegie-Mellon Univ., Pittsburgh, Pa., 1976) *14417
Symposium on Theory of Computing, Seventh Annual ACM (Albuquerque, N. M., 1975) *4161
Symposium on Theory of Computing, Eighth Annual ACM (Hershey, Pa., 1976) *4162
System sciences *9124,*9125
Systèmes informatiques *4159
Texas Conference on Computing Systems, Second (Univ. Texas, Austin, Tex., 1973) *14418
Texas Conference on Computing Systems, Third (Univ. Texas, Austin, Tex., 1974) *14419
Texas Conference on Computing Systems, Fourth (Univ. Texas, Austin, Tex., 1975) *14420
Texas Conference on Computing Systems, Fifth (Univ. Texas, Austin, Tex., 1976) *14421
Theory of computing 4161
Working Papers presented at the ACM-SIGACT Symposium on the Theory of Computing (Albuquerque, N. M., 1975) *11828

68A05 *Programming theory*

Allen, F. E. 4164
Armstrong, W. W. 9126
de Bakker, J. W. 11829,14422
Basu, Sanat K.; et al. 6537
Birman, Alexander; et al. 1699,14423
Blaizot, France; et al. *11836
Blaizot, Laurent; et al. *11836
Böhm, Corrado; et al. 1694
B"rnev, Pet"r; et al. 11830
B"rneva, Margarita; et al. 11830
Bruno, John; et al. 14424
Buchberger, B. 9127
Burge, William H. 1695
Carter, William C.; et al. 1699
Chanon, R. N. 14425
Chen, W. T.; et al. 1703
Constable, Robert L. 1696
Constable, Robert L.; et al. 4166,14426
Courcelle, B.; et al. 4165
Courtois, P.-J.; et al. 1697
Čulík, K. 9128
Dałek, K. 10143
DeMillo, R. A.; et al. 9129
Dennis, J. B.; et al. 9130
DeRemer, Frank; et al. 9131
Dezaniciancaglini, Mariangiola; et al. 1694
Egli, Herbert; et al. 4166
Eisenstat, S. C.; et al. 9129
Elgot, Calvin C. 1698
Engeler, Erwin 9132
Eremin, G. S. 11831
Fehr, Elfriede *9133
Finance, J.-P. 11832
Fosseen, J. B.; et al. 9130
Füllenbach, Adolf *4167
Gabov, Harold N.; et al. 14427
Goguen, J. A.; et al. 4168
Gries, David; et al. 1701
Halilov, A. I. 6538
Hansen, John C. 11833
Hoare, C. A. R. 9134
Hoffman, Christoph M.; et al. 6539,9135
Horowitz, Ellis; et al. *6540
Howden, William E. 14428
Jalobeanu, M. (5315)
Joyner, William H., Jr.; et al. 14423
Kahn, Gilles 14429
Katz, Shmuel; et al. 4169
Keller, Robert M. 14430
Kim, Chung Sön 9136
Kim, K. H.; et al. 1703
King, James C. 6541
Kostyrko, V. S.; et al. 9137
Krecznar, Antoni (12509)
Kron, Hans H.; et al. 9131
Lamport, Leslie 11834

68A05 *Continued*

Landweber, Lawrence H.; et al. 6539,9135
Leeman, George B., Jr.; et al. 1699
Leticevs'kiĭ, O. A. 6542
Leticevs'kiĭ, O. A.; et al. 9137
Lien, Y. Edmund (7126)
Linderman, J. P.; et al. 9130
Lipton, R. J.; et al. 9129
Lorho, B.; et al. *11835
Maheshwari, Shachindra N.; et al. 14427
Manna, Zohar; et al. 4169
Maurer, W. D. 9138
Melkanoff, Michel A. 4170
Milner, Robin 4171
Misra, Jayadev; et al. 6537
Muchnick, S. S.; et al. 14426
Müller, Horst (7237)
Narin'jani, A. S. 9139
Neuhold, E. J. 9140
Nolin, L. 1700
Osterweil, Leon J.; et al. 14427
Owicki, Susan; et al. 1701
Pfaltz, John L. (2547)
Prochnow, Dieter 1702
Rajlich, Václav (9179)
Rammamoorthy, C. V.; et al. 1703
Raymond, F. H. 9141
Reisig, Wolfgang (*12502)
Reynolds, John C. 1704
Riedemann, Eike Hagen 9142
Roucairol, Gérard 14431
Šabunin, L. V. (7210a-b)
Sahni, Sartaj; et al. *6540
Sazonov, V. Ju. (7211)
Schlösser, Ludwig *1705
Schmid, Hans Albrecht 6543
Simone, Carla (69)
Steiglitz, Kenneth; et al. 14424
(Stucki, Leon G.) *4163
Thatcher, J. W.; et al. 4168
Tomov, Valentin; et al. 11830
Trahtenbrot, M. B. 4172
Uyehara, Takao 6544
Vantilborgh, H.; et al. 1697
Vatoux, M.;et al. *11835
Vuillemin, J.; et al. 4165
Vuillemin, Jean 9143
Wagner, Eric G. 14432
Wang, Arne 9144
Wirth, Niklaus 14433
Algorithm specification (Courant Comput. Sci. Sympos. 4, New York Univ., New York, 1971) 14424
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) 11829
Annual Symposium on Switching and Automata Theory, 15th (1974) 4168,6539
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) (12509)
Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschnunsinst., Oberwolfach, 1969) 9128
Formal languages and programming (Proc. Sem., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) 4170
Foundations of computer science (Lecture Notes, Advanced Course Univ. Amsterdam, Amsterdam, 1974) 9140,14422
Information processing 71 (Proc. IFIP Congress, Ljubljana, 1971), Vol. 1 1696
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 1699,9126,14429,14433
International Symposium on Theoretical Programming (Novosibirsk, 1972) 4164,6542,9127, 9130,9132,9134,9139
Jahrestagung der Gesellschaft für Informatik, Fünfte (Dortmund, 1975) 9142
Logic Colloqium '73 (Bristol, 1973) 4171,1698
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) (9179)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) 11833
Programming Symposium (Proc. Colloq. Programmation, Paris, 1974) 14425,14431
Special section on testing *4163,14427,14428
Symposia Mathematica, Vol. XV 1700,1704
Symposium on the Theory of Computing, Third Annual ACM (Shaker Heights, Ohio, 1971) 14426
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) 9143,14432
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 4165
Testing *4163

68A10 *Algorithms* [*See also* 02E10.]

Aho, Alfred V.; et al. *1706
Artzy, Ehud; et al. 1707
Azatjan, A. A. (2579),14434
Bhagavan, B. K.; et al. 4179
Bitner, James R.; et al. (12349)
Brockett, Roger W.; et al. 4174
Bruno, John; et al. (14424)
Dijkstra, Edsger W. 14435
Dobkin, David; et al. 4174,4175
Druffal, L. E.; et al. (2515)
Ehrlich, Gideon; et al. (12349)
Espelid, Terje O. 6545
Filonik, S. A.; et al. (7121)
Fredman, Michael L. 4176
Fredricksen, Harold; et al. 11837
Graham, J. W.; et al. 9145
Hinds, James A.; et al. 1707
Hopcroft, John E.; et al. *1706
Horvath, Edward C. 4177
Hyafil, L.; et al. 4178
Johnston, H. C. 11838
Kasami, Tadao; et al. 9148
Kessler, Irving; et al. 11837
Kleitman, Daniel J.; et al. (11176)
Klette, Reinhard (2435)
Knuth, Donald E. 11839
Koh, K. M.; et al. (12569)
Krieger, Michael M.; et al. (11176)
Kritzinger, P. S.; et al. 9145
La Porte, Michel; et al. (*11722)
Lipton, Richard J.; et al. 4175
Luccio, Fabrizio; et al. (2505)
Makarov, O. M. 11840
McCreight, Edward M. 1708
Moenck, Robert T. (10185)
Pagli, Linda; et al. (2505)
(Pearl, J.) (12348)
Polge, R. J.; et al. 4179
Prusker, F.; et al. 4178
Raß, Z. 9146
Reingold, Edward M.; et al. (12349)
Rice, John R. (9058a-c)
Rubin, Frank (2509)
(Rustin, Randall) *4173
Saal, Harry J.; et al. 1707
Samohvalov, K. F. (7197)
Schlumberger, Maurice; et al. (6597)
Schmidt, D. C.; et al. (2515)
Schneider, Michel (5054)
Simons, Johannes Leonardus (*7361)
Simpson, J. E.; et al. (2515)
Solncev, S. V.; et al. (7121)
Steiglitz, Kenneth; et al. (14424)
Strong, H. R. 9147
Taniguchi, Kenichi; et al. 9148
Tarjan, Robert Endre (12557)
Teh, H. H.; et al. (12569)
Ullman, Jeffrey D.; et al. *1706
Vignes, Jean; et al. (*11722)
Vuillemin, J.; et al. 4178,(6597)
(Wilkinson, J. H.) (*11722)
Yuen, C. K. (12348)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 11839
Algorithm specification (Courant Comput. Sci. Sympos. 4, New York Univ., New York, 1971) *4173,9147,(14424)
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) (11176)
Conference for Formal Methods in the Methodology of Empirical Sciences (Jabłonna, June 17-21, 1974) (7197)
Courant Computer Science Symposium, 4 (Courant Inst. Math. Sci., New York Univ., New York, 1971) *4173
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) (9058a)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Fourth (1973) 9145
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) (2515)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) 4174
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 4177,4178

68A15 *Symbolic computation*

Bauer, F. L. (7189)
Bellman, Richard; et al. (2417)
Campbell, J. A.; et al. 11841
Claybrook, Billy G. 6546
Giertz, Magnus; et al. (2417)
Guru, B. P.; et al. (4124)
v. Henke, F. W.; et al. (2434)
Indermark, K.; et al. (2434)
Kent, J. G.; et al. 11841
Lindner, Rolf; et al. (7226)
Moore, R. J.; et al. 11841
Rink, R. A.; et al. (4124)
Rose, G.; et al. (2434)
Weihrauch, K.; et al. (2434)
Werner, Günter; et al. (7226)

68A20 *Computational complexity and efficiency*

Aho, Alfred V.; et al. (*1706),11842
Alton, Donald A. (75)
Bagchi, A.; et al. 6558
Baker, Theodore P. 4180
Barasko, A. S. 14436
Beeri, C. 14437
Berri, C.; et al. (14462)
Borodin, Allan 14438
Brent, Richard P. 11843
Brockett, Roger W.; et al. (4174)
Bruno, John; et al. (6928)
Chaitin, Gregory J. 1709
Chen, Shyh Ching; et al. 4181
Coffman, E. G., Jr.; et al. (6928)
Constable, Robert L. 4182
Cook, Stephen; et al. 6547,(7215,9166)
Daley, R. P. 1710
Dehtjar', Mihail I. (4942)
Dobkin, David 11845
Dobkin, David; et al. (4174,4175),11844
Ehrenfeucht, Andrzej; et al. 6548
van Emde Boas, P. (7224)
Even, Shimon; et al. (2508)
Fischer, Michael; et al. 9153,11849
Flojolet, P.; et al. 4183
Fredman, Michael L. (4176)
Gabow, Harold N. (10073)
Galil, Zvi (2440)
Garey, M. R.; et al. (6929,6930),6549,14439
Gill, John T., III 1711
Gonzales, Teofilo; et al. 4189
Grodzki, Zdzisław (4934)
Gustavson, F. G. (4834)
Harper, L. H.; et al. 4184
Hartmanis, J. 6550
Hartmanis, Juris; et al. (4193),9149
Hirschberg, D. S.; et al. 11842
Hoey, Dan; et al. 14441
Hopcroft, John E.; et al. (*1706)
Horvath, Edward C. (4177)
Hotz, Günter 14440
Hseih, W. N.; et al. 4184
Hu, T. C.; et al. (9661)
Hunt, H. B., III 9150
Hyafil, Laurent; et al. 1712,(4178)
Ibaraki, Toshihide 6551
Ibarra, Oscar H.; et al. (9863)
Johnson, D. S.; et al. 6549,(6929,6930),14439
Johnson, D. T.; et al. (4215)
Kang, Andy N. C. 6552
Kanovič, M. I. 11846
Kedem, Zvi M. 9151
Knuth, Donald E. (11839)
Kuck, David J.; et al. 4181
Kung, H. T. 6553,9152
Kung, H. T.; et al. (1583)
Ladner, Richard E. 11847
Ladner, Richard; et al. 6554,(7222)
Lamagna, Edmund A.; et al. (4842)
Lenard, M. L.; et al. (9661)
Levin, A. A. (9993)
Levin, L. A. (2325),4185
Lipton, Richard J.; et al. (4175),11844
Lynch, Nancy; et al. 6554,(7222),9153
Mandl, Robert; et al. 4186
Marandžjan, G. B. (4936)
Mehlhorn, Kurt (76)
Meyer, A. R.; et al. 6557,9153,11849
Miller, Webb (11752)
Moenck, Robert T. (10185)
Moll, Robert (77)
Müller, D. W. (9988)
Muller, David E.; et al. 6555,11848
Oppen, Derek C. 4187
Osborne, M. R. 1713

68A20 *Continued*

Papadimitriou, Christos H. (4613)
Paterson, M. S.; et al. (2350),11849
Pearl, Judea 9154
Pippenger, Nicholas; et al. (7131)
Popov, S. V. (9972)
Preparata, Franco P.; et al. 6555,11848
Prusker, F.; et al. (4178)
Rackoff, Charles (4957)
Rangel, Jose Lucas 4188
Reckhow, Robert; et al. (7215)
Rivest, Ronald L.; et al. 1712
Robertson, Edward L. 11850
Sahni, Sartaj; et al. 4189,(9863)
Savage, J. E.; et al. 4184,(4842)
Savage, S. L.; et al. 6558
Schnorr, C. P. 1714,(*2328),4190,6556,(9883)
Selman, Alan; et al. 6554
Sethi, Ravi; et al. 6547,(6928,6930,9166)
Shamir, E.; et al. (14462)
Shamos, Michael Ian; et al. 14441
Simon, Janos; et al. (4193),9149
Steyaert, J. M.; et al. 4183
Stockmeyer, L.; et al. 6549,6557
Strassen, Volker 14442
Strnad, Pavel (9992)
Szymanski, T. G.; et al. 9155
Trahtenbrot, B. A. (12498)
Traub, J. F.; et al. (1583)
Ullman, Jeffrey D.; et al. (*1706),9155,11842
Valiant, L. G.; et al. (2350,7131)
Vari, Thomas; et al. 4186
Vilfan, Boštjan (4852)
Voelkel, Lutz 9156
Vuillemin, J.; et al. (4178)
Weiner, P.; et al. 6558
Winograd, S. (11734)
Yao, Andrew Chi Chin; et al. 11852
Yao, Foong Frances; et al. 11852
Yap, Chee K. 6559
Yu, C. T.; et al. (4215)
Zeiger, Paul; et al. 6548
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 (11839)
Advances in computers, Vol. 14 9149
Analytic computational complexity (Proc. Sympos., Carnegie-Mellon Univ., Pittsburgh, Pa., 1975) (11734),11843
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) 9155,14437,14441
Annual Symposium on Switching and Automata Theory, 15th (1974) (2440,4193,4842),4180, 4188,4189,6553,11842
Automata, languages and programming (Proc. Sympos., Rocquencourt, 1972) 4183
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) 14440,(14462)
Complexity of computation (Proc. Sympos., New York, 1973) 11849
Currents in the theory of computing 14438
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 1713
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) (6928)
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) 11846
Mathematical logic, theory of algorithms and theory of sets (12498)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. II (9988)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 14442
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (4174),4182,4187,6557,6558, 9150,9152,9153,(11752),11847
Symposium on Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (76),1711,(4177,4178, 4957),6548,6549,6554,(7215), 9151,(9166),11844,11850

68A25 *Automata theory*
[*See also* 02F10,18B20, 94A30,94A35.]

Aitchison, Peter W.; et al. (9990)
Anzai, Hiroyuki 9157
Baer, Robert M.; et al. (9991)
Barzdiņš, J. (9989)
Bavel, Zamir (2360)
Beeri, C. (14437)
v. Braunmühl, Burchard *1715
Burkhard, Hans-Dieter (4859)
Cavallo, Roger; et al. (10018)
Čulík, Karel 11853
Deussen, P. 4191
Flajolet, P.; et al. (4183)
Galil, Zvi (2440),9158
Giloi, W.; et al. (*9861)
Give'on, Y. 4192
Hack, Michel 11854
Hansen, John C. (11833)
Hartmanis, Juris; et al. 4193
Hellerman, Herbert; et al. (10018)
Hemmerling, Armin (4863)
Herman, Gabor T.; et al. (9990)
Hoehnke, Hans-Jürgen 6560
Ibarra, Oscar H.; et al. 1716
Itkin, V. Ė. 11855
Khang, N. Q.; et al. (441)
Kim, Chul E.; et al. 1716
Klar, Rainer *9159
van Leeuwen, Jan (1725),14443
van Leeuwen, Jan; et al. (9991)
Liebig, H.; et al. (*9861)
Lisovik, L. P. 9160
(Loeckx, Jacques) *9164
Mayoh, Brian H. 4194
Mihaĭlov, G. I.; et al. 6561
Milgram, David L. 9161
Morgan, Charles G. (4867)
Peák, I.; et al. (441)
Raš, Z. 9162
Restivo, Antonio (2327,6576)
Reusch, Bernd (2366)
Rodriguez, François 6562
Rosenfeld, Azriel 1717
Simon, Janos; et al. 4193
Skowron, Andrzej (4940)
Starke, Peter H. 14444
Steyaert, J. M.; et al. (4183)
Šukurjan, Ju. G. 6563
Tal', A. A.; et al. 6561
Tan, S. T. 4195
Thatcher, James W. 14445
Trofimčuk, R. N. 4196
Wagner, Klaus 9163
Wiśniewski, K. 1718
Yaku, Takeo (4871)
Żakowski, W. 14446
Zech, Karl-Adolf 14447
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) (14437)
Annual Symposium on Switching and Automata Theory, 15th (1974) (2440),4193,11854
Automata, languages and programming (Proc. Sympos., Rocquencourt, 1972) (4183)
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) *9164
Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschungsinst., Oberwolfach, 1969) 4191
Category theory applied to computation and control (Proc. First Internat. Sympos., San Francisco, Calif., 1974) 6560
Colloquium on Automata, Languages and Programming, Second (Univ. Saarbrücken, Saarbrücken, 1974) *9164
Currents in the theory of computing 14445
International Symposium on Theoretical Programming (Novosibirsk, 1972) 6563,11855
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) 4194,14443
Languages *9164
Mathematical foundations of computer science (Proc. Sympos. and Summer School, Štrbské Pleso, 1973) (441,4940)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (9989)
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) (11833)
Programming *9164
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) (1725)
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) (2360,2366),4192

68A30 *Linguistics, formal languages*

Amamiya, Makoto; et al. 4204
Anĭsĭmov, A. V.; et al. (10425)
Arnold, André; et al. 4197
Aronson, Alan R.; et al. 1721
Backhouse, R. C. 1719
Beauquier, Joffroy 1720
Bedian, Vahe; et al. (2240)
Beeri, C.; et al. 14462
Benson, David B. (375)
Berstel, Jean (2572)
v. Braunmühl, Burchard (*1715)
B"rnev, Pet"r; et al. (11830)
B"rneva, Margarita; et al. (11830)
Buttelmann, H. William 6564,6565
Carlyle, J. W.; et al. 11856
Cîşlaru, C. 14448
Cîşlaru, Cornel; et al. 9165
Cook, Craig M.; et al. 1721
Cook, Stephen; et al. (6547),9166
Crespi-Reghizzi, S.; et al. 9167,9168,14449
Dauchet, Max; et al. 4197
Demers, A. J. 14450
Dikovskiĭ, A. Ja. 14451
Dikovskiĭ, A. Ja.; et al. 6580
(Doleżel, Lubomír) *11869,*11870
Doucet, P. G. 14452
Duong-Kien, C.; et al. 9176
Ehrenfeucht, A.; et al. 1729,6566
Ehrig, H.; et al. 14453
Flajolet, P.; et al. (4183,12501)
(Franciosi, Filippo) *9174
Frijters, D.; et al. (4707)
Geller, Matthew M.; et al. 11857,14454
Ghezzi, Carlo 9169
Gladkiĭ, A. V. *14455a-b
Graham, Susan L.; et al. 11857
Greibach, S. A.; et al. 11856
Hammer, Michael 4198
Harrison, Michael A.; et al. 11857,14454
Hart, Johnson M. 9170
Havel, Ivan M.; et al. 14454
Hayashi, Takeshi 4199
(Hérault, Daniel) *14455a-b
Herman, G. T. 6567
Herman, Gabor T.; et al. (2240),9171
Hoffmann, H.-J.; et al. 9176
Hojka, H. 14456
Höpner, Matthias 9172
(Horecký, Ján) *11872
Hunt, H. B., III; et al. 6568
Ibarra, Oscar H.; et al. 1722
Indermark, Klaus 6569
Johansen, Peter; et al. 11858
Kac, B. E.; et al. 4200
Kaminger, F. P. (7113)
Kim, Chul E.; et al. 1722
Knobe, Bruce; et al. 11859
Knobe, Kathleen; et al. 11859
Koĭt, M. 1723
Kristensen, B. B.; et al. 6572
Kuich, Werner; et al. 1724
Kuzenko, V. F. 6570
Lakoff, George (9977)
Latteux, Michel 9173
van Leeuwen, Jan 1725,(14443)
Lepistö, Timo 11860
Lescanne, Pierre 6571
Levy, Leon S. 1726
Lindenmayer, A.; et al. (4707)
Linna, M. 14457
Loui, Michael C. 1727
Madsen, O. L.; et al. 6572
Mandrioli, D.; et al. 9167,9168,14449
Marcus, Solomon; et al. *9174
Martin, David F. 9175
Maurer, Herman A.; et al. 9177
Melling, Erik; et al. 11858
Modina, L. S. 6573
Moriya, Etsuro 6574
Muth, D.; et al. 9176
Nicolau, Edmond; et al. *9174
Nielsen, Mogens 9178
Nivat, Maurice 11861
Noguchi, Shoichi; et al. 6582
Novotný, M. 6575,14458
Oizumi, Juro; et al. 6582
Pair, C. 4201,11862
Păun, Gheorghe; et al. 9165
Paz, A.; et al. 11856
Pfender, M.; et al. 14453
Plátek, M. 14459
Pohl, Hans Werner 14460
Rajlich, Václav 9179
Reeker, Larry H. 4202
Restivo, Antonio 6576
Rosen, Barry K. 11863
Rosenfeld, Azriel; et al. 1721
Rosenkrantz, D. J.; et al. 6568
Rozenberg, G.; et al. 1729,6566
Rozenberg, Grzegorz 1728,9180
Rus, Teodor; et al. 11864
Ruzicka, Peter 6577
Sahni, Sartaj K.; et al. 1722
Salomaa, Arto 1730,4203
Schneider, H. J.; et al. 14453
Schneider, Hans Jürgen 9181
Schuler, P. F. 1731
Schützenberger, M. P. 9182,9183
Seifert, Franz D.; et al. (10425)
Sekimoto, Shoji 1732
Semeniuk-Polkowska, Maria 6578,14461

68A30 *Continued*

Sethi, Ravi; et al. (6547),9166
(Sgall, Petr) *11869-*11872
Shamir, E.; et al. 14462
Shyamasundar, R. K.; et al. 1724
Shyr, H. J.; et al. 9184
Škil'njak, S. S. 9185
Skyum, S.; et al. 1729
Solahjan, S. A. 11865
Sontag, Eduardo D. (4941)
Springsteel, Fred Neil 6579
Starke, Peter H. (14444)
Stati, Sorin; et al. *9174
Steyaert, J. M.; et al. (4183,12501)
Stockiĭ, È. D.; et al. 4200
Sularie, Mircea; et al. 11864
Szilard, Andrew L. (12607)
Szymanski, T. G.; et al. 6568
(Tagliavini, Carlo) *9174
Takaoka, Tadao; et al. 4204
(Těšitelová, Marie) *11870-*11872
Thatcher, James W. (14445)
Thierrin, G.; et al. 9184
Thompson, Richard A. 14463
Tomov, Valentin; et al. (11830)
(Vachek, Josef) *11869-*11871
Valiev, M. K.; et al. 6580
Vitányi, Paul M. B. 9186,11867
Walker, Adrian ; et al. 9171
Walter, H. K.-G. 6581
Wang, Patrick S. (9193)
Wechler, Wolfgang 1733
Wise, David S. 11868
Wood, D.; et al. 9177
Wood, Derick 4205,4206
Workman, D. A. 1734
Yamada, Osamu; et al. 6582
Annual IEEE Symposium on Switching and Automata Theory, 14th (Univ. Iowa, Iowa City, Iowa, 1973) 14453
Annual Symposium on Switching and Automata Theory, 15th (1974) 11856,14450
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) 11857,12501,14462
Automata, languages and programming (Proc. Sympos., Rocquencourt, 1972) (4183)
Currents in the theory of computing (14445)
Formal languages and programming (Proc. Sem., UAM-IBM Sci. Center, Univ. Autónoma Madrid, Madrid, 1975) 4201,9183,11861
Jahrestagung der Gesellschaft für Informatik, Vierte 9172,9181
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) 1730,(2240, 4707),6567,9178,11858, 11867,(12607,14443),14452
Lectures on the theory of ordered sets and general algebra (Abstracts, Summer Session, Harmonia, 1970) 6575
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) 1733,6569,9179,14451
Prague studies in mathematical linguistics, No. 1 *11869
Prague studies in mathematical linguistics, No. 2 *11870
Prague studies in mathematical linguistics, No. 3 *11871
Prague studies in mathematical linguistics, No. 4 *11872
Symposia Mathematica, Vol. XV 9182
Symposium on the Theory Computing, Third Annual ACM (Shaker Heights, Ohio, 1971) 11868
Symposium on the Theory of Computing, Sixth Annual ACM (Seattle, Wash., 1974) 1725,4198,9166
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) 4202

68A35 *Adaptive systems*

Alder, M. D. (12253)
Jarušek, V. E. 4207
Jarvis, R. A. (14835)
Nagano, Takashi (9735)

68A40 *Theorem proving*

Bibel, W. (4930)
Brand, D. 9187
de Bruijn, Nicolaas Govert *4208
Dunham, Bradford; et al. 14464
Hájek, Petr (4960)
(Henschen, Lawrence J.) *4209
Huet, Gerard P. (2442),6583
Shostak, Robert E. 6584a-b
Venturini Zilli, M. 6585
Wang, Hao; et al. 14464
Automated theorem proving *4209
IEEE Argonne Workshop on Theorem Proving (Argonne Nat. Lab., Argonne, Ill., 1975) *4209
Special issue on automated theorem proving *4209
Theorem proving *4209

68A45 *Artificial intelligence, pattern recognition*

Abusev, R. A. (9845)
Agababjan, K. G. (7003)
Agababjan, K. G.; et al. *9189
Aĭzerman, M. A.; et al. *4210
Bezdek, James C. 6586
Bongiovanni, G.; et al. 6587
Braverman, E. M.; et al. *4210
Čavčanidze, V. V. (6982),11873
Chandrasekaran, B.; et al. 11874
(Chen, C. H.) *6594
Chester, Daniel 6588
Chu, John T. 1735
Dajan, S. V.; et al. *9189
Deutsch, E. S. 14465
Diday, E.; et al. 1736
Doktorovič, A. B. 9188
Džavahišvili, I. N.; et al. (6412)
Ehrich, Roger W. (1486)
Fučík, Josef 1737
Geldiašvili, N. I.; et al. (6412)
Glaz, A. B.; et al. *9189
Győrfi, László (1487)
Hájek, Petr (71)
Havel, Ivan M.; et al. 1741
Horn, Berthold 4211
Hummel, Robert A.; et al. 6591
Ichino, Manabu 6589
Iščuk, V. I. 1738
Ivahnenko, O. G.; et al. *9189
Kanal, Laveen; et al. 11874
Kireĭtov, V. R. 11875
Krishnamurthy, E. V. 4212
Kvitašvili, A. A.; et al. *9189
Luccio, F.; et al. 6587
McKenzie, Ralph; et al. 11876
Minker, Jack; et al. 9192
Mirošnik, S. N.; et al. 1742
Montanari, Ugo 1739
Mycielski, Jan; et al. 11876
Nagano, Takashi 1740
Nilsson, Nils J. 9190
Ok, Y.; et al. 1736
Othmezuri, G. L.; et al. *9189
Pyt'ev, Ju. P. 4213
Rabin, Michael O. 9191
Rastrigins, L.; et al. *9189
Rebrova, M. P. 14466
Reznik, A. M.; et al. *9189
Rosenfeld, Azriel 6590
Rosenfeld, Azriel; et al. 6591
Rossowska, Michalina 6592
Rozonoèr, L. I.; et al. *4210
(Salter, K.) 11874
Schroeder, A.; et al. 1736
Schubert, L. K. 11877a-b
Sklansky, Jack; et al. (7078)
Štěpánková, Olga; et al. 1741
Švartin, S. M.; et al. 1742
(Tadeusiewicz, Ryszard) *4210
Thompson, David; et al. 11876
Tonge, D. G. (4727)
VanderBrug, Gordon J.; et al. 9192
Vasil'ev, V. I.; et al. *9189
Wang, Patrick S. 9193
Wassel, Gustav N.; et al. (7078)
Watanabe, Masafumi 14467,14468
Yunck, Thomas P. 6593
Zaĭčenko, Ju. P.; et al. *9189
Zorat, A.; et al. 6587
Zucker, Steven W.; et al. 6591
Žuravlev, Ju. I.; et al. 1742
Artificial intelligence *6594
Bibliography: Artificial intelligence 9190
Pattern recognition 6590
Collection: Adaptive systems (7078)
Frontiers of pattern recognition (Proc. Internat. Conf., Univ. Hawaii, Honolulu, Hawaii, 1971) 11874
Information processing 71 (Proc. IFIP Congress, Ljubljana, 1971), Vol. 1 14465
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 1736,9190,9191
Joint Workshop on Pattern Recognition and Artificial Intelligence (Hyannis, Mass., 1976) *6594
Mathematical foundations of computer science 1975 (Fourth Sympos., Mariánské Lázně, 1975) (71)
Pattern recognition and artificial intelligence (Proc. Joint Workshop, Hyannis, Mass., 1976) *6594
Psychology of computer vision 4211

68A50 *Information retrieval*

Aronovič, A. B.; et al. *14469
Berman, Gerald 14470
Chu, Wesley W.; et al. 9194
Cowan, D. D.; et al. 14471
Ežov, È. V.; et al. *14469
Fay, G.; et al. 6595
Ferguson, Helaman Rolfe Pratt (4082)
Florinskiĭ, A. B.; et al. *14469
Ghosh, Sakti P. 6596
Gorbatenko, N. G.; et al. *14469
Graham, J. Wesley; et al. 14471
Hansson, Åke; et al. 11878
Johnson, D. T.; et al. 4215
Maly, Kurt 9195
Mizoguchi, Tetsuo 4214
Opderbeck, Holger; et al. 9194
Rosenberg, Arnold L.; et al. 14472
Schlumberger, Maurice; et al. 6597
Stockmeyer, Larry J.; et al. 14472
Subieta, Kazimierz 1743
Suvorov, B. P.; et al. *14469
Takacs, D. V.; et al. 6595
Tärlung, Sten-Åke; et al. 11878
Vuillemin, Jean; et al. 6597
Wadler, Philip L. 14473
Welch, James W.; et al. 14471
Yu, C. T.; et al. 4215
ACM Symposium on Operating Systems Principles, Fifth (Univ. Texas, Austin, Tex., 1975) 9194
Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Seventh (Louisiana State Univ., Baton Rouge, La., 1976) 14471

68A55 *Simulation* [*See also* 65Cxx.]

Čerepov, V. A.; et al. 9196
Každan, A. È.; et al. 9196
Mitchell, Bill (6448)
Moran, P. A. P. (11577)
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 (11577)

68A99 *None of the above, but in this section*

(Barlow, Richard E.) (*11709)
Bass, L. J. 6598
Basu, Dhruba; et al. 9197
(Birnbaum. Z. W.) (*11709)
Boari, M.; et al. (7116)
Clark, James H. 4216
Fox, Thomas F.; et al. (2179)
Fussell, Jerry B.; et al. (*11709)
Habermann, A. N. 6599
Harrison, Michael A.; et al. 14474
Jayasri, Totadri; et al. 9197
Lavenberg, S. S.; et al. (2178)
Li, Hon F.; et al. (2179)
Natali, A.; et al. (7116)
Ol'ševskiĭ, Ja. 6600
Ramamoorthy, C. V.; et al. (2179)
Ruzzo, Walter L.; et al. 14474
Shedler, G. S.; et al. (2178)
(Singpurwalla, Nozer D.) (*11709)
Trusov, S. S. (6938)
Ullman, Jeffrey D.; et al. 14474
Collection: Birnbaum, Z. W. (*11709)
Computer nets (Suppl. to Proc. Seventh Hawaii Internat. Conf. on System Sci., Univ. Hawaii, Honolulu, Hawaii, 1974) *11879
Computer performance modeling, measurement and evaluation *11880
Conference on Reliability and Fault Tree Analysis (Univ. California, Berkeley, Calif., 1974) (*11709)
Fault tree analysis (*11709)
Foundations of computer science (Lecture Notes, Advanced Course, Univ. Amsterdam, Amsterdam, 1974) 6599
International Symposium on Computer Performance Modeling, Measurement and Evaluation (Harvard Univ., Cambridge, Mass., 1976) *11880

68A99 *Continued*

Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974), Suppl. *11879
Reliability and fault tree analysis (Conf., Univ. California, Berkeley, Calif., 1974) (*11709)
System reliability (*11709)

69—XX GENERAL APPLIED MATHEMATICS

Thompson, B. W. (14347)
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) (14347)

69.00 *General*

Cole, G. H. A.; et al. *11881
(Glowinski, R.) *14476
Görtler, Henry *1744
Grekova, I. 1745
Guggenheimer, H. *1746
Ingarden, Roman S. (11177)
(Jankovskiĭ, G.) *14475
Killingbeck, J.; et al. *11881
Klimkiewicz, Wojciech (12433)
(Kuhnert, F.) *11882
(Lions, J. L.) *14476
Mihlin, S. G. *11882
Myskis, A. D.; et al. *14475
(Prößdorf, S.) *11882
Rvačov, V. L. *1747
Woods, L. C. 11883
Zel'dovič, Ja. B.; et al. *14475
Computing methods in applied sciences (Second Internat. Sympos., Versailles, 1975) *14476
International Symposium on Computing Methods in Applied Sciences, Second (Versailles, 1975) *14476
Spectrum of mathematics (Essays presented to H. G. Forder) 11883

70—XX MECHANICS OF PARTICLES AND SYSTEMS

70.00 *General*

Buzdugan, Gheorghe; et al. *4217
Fetcu, Lucia; et al. *4217
(Kacygin, V. V.) *4219
(Kontovt, V. I.) (*3597)
Landau, Lev D.; et al. *4218
Lifšic, E. M.; et al. *4218
(Lohin, V. V.) (*3597)
(Macov, A.) *4218
Opeĭko, F. A. *4219
Rades, Mircea; et al. *4217
Sokolnikoff, I. S. (*3597)
Tkalič, V. S. *4220

70.01 *History and biography*

Euler, Leonard (*7181)
(Grigor'jan, A. T.) (*2401)
Idel'son, N. I. (*2401)
(Merkin, D. R.) (*2401)
(Truesdell, Clifford Ambrose) (*7181)

70.10 *Theory of numbers*

Greig, W. E. 14477

70.15 *Linear and multilinear algebra, matrix theory*

Vakulenko, A. A. *4221

70.22 *Topological groups and Lie theory*

Wulfman, C. E.; et al. (79)
Wybourne, B. G.; et al. (79)

70.30 *Functions of a complex variable*

Ahmadi, G.; et al. 14479
Farshad, M.; et al. 14479

70.33 *Special functions*

Giacaglia, G. E. O. 14478

70.34 *Ordinary differential equations*

Arazov, G. T. 9198
Artobolevskiĭ, I. I.; et al. 11884
Avotin, E. V.; et al. 9199
Balli, Raffaele 9200,11885
Barkin, Ju. V. 1748,4222
Bastin, H.; et al. 6601
B"čvarov, Stefan N.; et al. 6602
Bottema, Oene 9201
Boxis, George 1749
Braunbek, Werner 11886
Burlaka, V. S. 11887
Černous'ko, F. L. 1750
Česankov, B. 4223
Correas, J. M. (4555)
Delchambre, M.; et al. 6601
Droz-Vincent, Philippe (6198)
Garaščenko, F. G.; et al. 1751
Glikman, L. G. 4224
Gómez Trapote, Alberto 4225
Guelman, M. 9202
Hadjidemetriou, John D. 9203
Halanay, A. 9204
Hussain, M. 9205
Īsaēv, Ju. Ī.; et al. 1757
Kac, M.; et al. 14480
Keis, I. 6603
Kemurdžian, A. L.; et al. 9199
(Kirchgraber, U.) *14484,*14485
Kiricenko, M. F.; et al. 1751
Klokov, V. I. 11888
Kobrin, A. I.; et al. 14481
Konosevič, B. I. 1752
Kovalev, A. M.; et al. 9206
Kozlov, V. V. 11889
Kummer, Martin 11890
Kunicyn, A. L. 9207
Lilov, L.; et al. 4230
Loščinin, V. S.; et al. 11884
Magnus, K. 9208
Maisser, Peter; et al. 14482a-b
Manolov, S. 9209
Marchal, Christian; et al. 4226
Marcus, R. A. 6604
Markellos, V. V. 1753
Martynenko, Ju. G.; et al. 14481
Merkin, D. R. 1754,14483a-b
Mišon, Karel 9210
van Moerbeke, Pierre; et al. 14480
Neĭštadt, A. I. 9211,9212
Ol'šaneckiĭ, M. A.; et al. 1755
Paraskov, Cvetan N.; et al. 6602
(Paršin, A. N.) (2408)
Pascal, Madeleine 9213,11891
Perelomov, A. M.; et al. 1755
Rubanovskiĭ, V. N. 11892
Rueegger, Heinz *9214
Saari, Donald G.; et al. 4226
Sagirow, Peter S. 4227
Savčenko, A. Ja.; et al. 9206
Schmidt, Dieter S. 4228
Sharma, Ram Krishan 6605
Singh, Sahjendra N. 9215
Spak, F. P.; et al. 9199
Stellmacher, I. 1756
(Stieffel, E.) *14484,*14485
(Szebehely, V.) (*7157),*14484,*14485
(Tapley, B. D.) (*7157)
Troickaja, L. S. 4229
Tudosie, Constantin 11893
Vettori, Carlo 9216
Weyl, H. (2408)
Wittenburg, J.; et al. 4230
Zorīĭ, L. M.; et al. 1757
Celestial mechanics *14484,*14485
Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975) *14484,*14485
Dynamics (*7157)
Long-time predictions in dynamics (Proc. NATO Advanced Study Inst., Cortina d'Ampezzo, 1975) (*7157)
Mathematical methods, and physical and mechnical fields, No. 1 1757
NATO Advanced Study Institute (Cortina d'Ampezzo, 1975) (*7157)
Ordinary differential equations: 1971 NRL-MRC Conference 4228,9204
Proceedings of the Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975), Part I *14484
Proceedings of the Conference on Mathematical Methods in Celestial Mechanics, Fifth (Oberwolfach, 1975), Part II *14485
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) 4227

70.35 *Partial differential equations*

Agostinelli, Cataldo 11894,14486
Andreassi, Gabriele 9217
Batra, R. C. (9363)
Bektasi, T. G. 11895
Burštein, E. I. 9218
Choudhry, Ram Kishore 6606
Dietz, Werner 4231
Ghori, Q. K.; et al. 6607
Hussain, M.; et al. 6607
Hussain, Munawar 1758
Kuhte, K. Ja. 6608
Treder, H.-J. (4518)
Van Dooren, René 4232
Wojciechowski, S. 6609
Pubblicazioni dell'Istituto di Matematica Applicata (Fac. Ingegneria, Univ. Stud. Roma), No. 130, Quaderno No. 4 9217

70.41 *Approximations and expansions*

Dolja, V. V.; et al. 9221
Dutt, Ranabir 11896
Guillaume, Pierre 4233
Gutowski, R. 6610
Laričeva, V. V. 4234
Meyer, Richard E. 6611
Perko, L. M. 9219
Schwartz, Charles 9220
Valēev, K. G.; et al. 9221
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 9219

70.45 *Integral equations*

Langebartel, R. G. (2127)

70.46 *Functional analysis*

Vil'ke, V. G. 14487

70.49 *Calculus of variations, optimal control*

Atanackovic, T. M.; et al. 9222
Borrelli, R. L.; et al. 11897
Černous'ko, F. L. (1750)
Đukić, Đorđe S. 4235
Đukić, Đorđe S.; et al. 9222
Hussain, Manawar (1758)
Krüger, J. G. (12053)
Leliakov, I. P.; et al. 11897
Predvoditelev, A. S. *9223
Razumihin, B. S. (13699,13700)
Schlup, Werner A. 11898
Smirnov, E. Ja. 9224

70.50 *Geometry*

Blume, Klaus-Dieter 14488
Manolescu, N.; et al. 6612
Nica, D.; et al. 6612
Pandrea, N.; et al. 6612
Tölke, Jürgen 14489
Collection: Manea, Gheorghe 6612

70.53 *Differential geometry*

Brunk, G. 9225
Čistjakova, A. Š.; et al. 14491
Čobanov, Ivan 11899
Colloi Pellegrini, Maria 6613
Đukić, Đorđe S.; et al. 1759
Giambò, Sebastiano 6614
Gohman, A. V. 14490
Keskinen, R.; et al. 9227
Lehtinen, M.; et al. 9227
Mukunda, N. 9226
Ogiēvic'kiĭ, I. I. 4236
Sil'de, O. M.; et al. 14491
Stachel, Hellmuth 14492
Tulczyjew, Włodzimierz M. (8726)
Vujanović, B.; et al. 1759
Differential geometry, No. 1 14490

70.58 *Global analysis, analysis on manifolds*

Benenti, Sergio (8721)
Deprit, André (13993)
Flato, M.; et al. (8735)
Kohler, Robert H. (1297)
Kracklauer, Aloysius F. (3756)
Lichnerowicz, A.; et al. (8735)
Ligon, Thomas; et al. (13996)
Palmore, Julian I. 1760,1761,(8725)
Rüßmann, Helmut (14000)
Schaaf, Manfred; et al. (13996)
Sternheimer, D.; et al. (8735)
Tulczyjew, Włodzimierz M. (8727)
Voros, A. (8759)

70.60 *Probability*

Bolotin, V. V. 11900
Karmeshu 6615
Storoženko, V. O. 9229

70.65 *Numerical methods*

Kowalczyk, Bohdan; et al. 4237
Ratajczak, Tadeusz; et al. 4237
Rumjanceva, L. I. (6886)
Sharma, Ram Krishan; et al. 1762
Subba Rao, P. V.; et al. 1762

73—XX ELASTICITY, PLASTICITY

73.00 *General*

Balke, H. 9230
Baželeĭšvili, M. O.; et al. *9233
Berezovskiĭ, A. A.; et al. *9231
Burčuladze, T. V.; et al. *9233
(Černyĭ, G. G.) *9235
(Galimov, K. Z.) *1769
Gegelia, T. G.; et al. *9233
Holsapple, K. A. 6616
Il'jusin, A. A.; et al. *9232
(Kontovt, V. I.) (*3597)
Kupradze, V. D.; et al. *9233
Langhaar, H. L. *9234
(Lavrent'ev, M. A.) *9235
Leipholz, H. *1763
(Lohin, V. V.) *1764,*1766,(*3597)
(Mihaĭlov, G. K.) *9235
(Mushelišvili, N.) *9235
Nikišin, V. S.; et al. *11901
(Novožilov, V. V.) (*12425)
(Parton, V.) *1766,*1767
(Pietrzykowski, Jerzy) *1770,*1772
(Platonov, V.) *1766,*1767
(Pobedrja, B. E.) *9232
(Rabotnov, Ju. N.) (*12425)
Šapiro, G. S.; et al. *11901
Sedov, L. I. *1764-*1767,*9235,(*12425)
Sokolnikoff, I. S. (*3597)
Stoker, J. J. *1768
van de Ven, Alphons Adrianus Franciscus *6617
Žariĭ, Ju. I.; et al. *9231
Birthday: Novožilov, V. V. (60th) (*12425)
Mechanics of a deformable solid *9235
Mechanics of a solid deformable body (*12425)
Mechanics in the USSR in the past 50 years in four volumes, Vol. 3 *9235
Multiphase media *1770,*1772
Plates and shells *1769
Problems: Mechanics of a solid deformable body (*12425)
Studies in the theory of plates and shells, No. XI *1769
Theory of multiphase media, Part I *1770
Theory of multiphase media, Part II *1772
Working Conference on Multiphase Media (Jabłonna, 1974) *1770,*1772

73.01 *History and biography*

(Grigoljuk, È. I.) (*12466,*12467)
Timošenko, S. P. (*12466,*12467)
Bibliography: Timošenko, S. P. (*12467)

73.20 *Group theory and generalizations*

Buriškin, M. L. 14493,14494

73.28 *Measure and integration*

Sra, K. S. 11902

73.30 *Functions of a complex variable*

Aleksandrov, A. Ja.; et al. 11903
Bhargava, R. R.; et al. 1773
Kapšiviĭ, O. O.; et al. 9236
Kopystyra, N. P.; et al. 9236
Mirsalimov, V. M. 14495
Narayan, Ram; et al. 1773
Olegin, I. P.; et al. 11903
Šepelenko, V. N. 4238
Šerman, D. I. 4241
Theocaris, P. S. 9237
Vol'pert, V. S.; et al. 11903
Continuum mechanics and related problems of analysis 4241

73.31 *Potential theory*

Davitadze, D. B. 9238
Laliašvili, O. È. 4239

73.33 *Special functions*

Singh, B. M. 1774

73.34 *Ordinary differential equations*

Antman, Stuart S. 6618,6619
Balanis, George N. 4240a-b
Baltov, A. 1775
Barcilon, Victor 6620
Kosiński, W. (6702)
Leipholz, H. H. E. 9239
Leipholz, H. H. E.; et al. 1776
Madan, Om. P.; et al. 1776
Minceva, M. I. 9240
Musgrave, M. J. P.; et al. 1777,1778
Smirnov, A. I. 1779
Swint, David O.; et al. 14496
Tasi, J.; et al. 1777,1778
Yen, David H. Y.; et al. 14496
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 14496

73.35 *Partial differential equations*

Afanas'ev, E. F.; et al. 6621
Agniašvili, M. R. 4242
Alić, M. 9241
Ambarcumjan, S. A. *4243
Arhipova, E. S.; et al. 9242
Babenko, V. I. (1801)
Baczyński, Z. F. 1780
Baĭdak, D. A.; et al. 1781
Barber, J. R. 1782
Barclay, D. W.; et al. 11904
Beckert, Herbert 11905
Bereženoĭ, I. A.; et al. 4244
Berkovič, V. N. 11906
Bielak, Stanisław 1783
Biswas, Paritosh 9243
de Boer, R. 4245
Borş, C. I. 1784
Boyle, J. T. 1785
Bucukuri, T. V. 1786
Burčuladze, T. V. 4246
Buzdugan, Gheorghe; et al. (*4217)
Čerepanov, G. P.; et al. 6621
Chadwick, P.; et al. 4247
Chen, Peter J.; et al. 9244
Cimatti, Giovanni 1787
Clements, D. L.; et al. 11915,14497
Corradi, Leone; et al. 1788
Coutris, N. 9245
De, Saurendra Nath; et al. 9246
De Donato, Osvaldo; et al. 1788
Dickey, R. W. 4248
Dobruškin, V. A.; et al. 4249
Džagmaidze, A. Ja.; et al. 1794
Elpat'evskiĭ, A. N.; et al. 6622
Eringen, A. Cemal; et al. *6623
Evseev, E. G.; et al. 9247
Farshad, M.; et al. 4257
Fedorjuk, M. V. 11907
Fetcu, Lucia; et al. (*4217)
Fichera, Gaetano 14498
Gaĭduk, S. I.; et al. 4249
Germain, P. 11908
Golecki, Joseph J. 4250,11909
Gordeziani, D. G. 1789
Gordeziani, D. G.; et al. 9247
Gorškov, A. G. (1840)
Graham, G. A. C. 14500
Greco, Antonio 4251
Guz', O. M. 14501
Halphen, Bernard; et al. 4252
Hasegawa, Hisao 11910
Hatiašvili, G. M. 11911
Hayes, M. 9307
Heath, D. J.; et al. 14502
Hills, R. N.; et al. 6624
Ismailov, M. A.; et al. 1790
Ivlev, D. D.; et al. 4244
Iwaniec, G. 4253,11912
Jain, D. L.; et al. (9355)
Kanwal, R. P.; et al. (9355)
Karetko, N. P. 9248
Kassir, Mumtaz K. 4254
Kirjuhin, L. V. 14503
Knops, R. J.; et al. 6624,*9249
Kobel'kov, G. M. 14504
Koiter, W. T. 14505
Korneev, V. G. 1791
Kotenko, N. V.; et al. 1793
Kovalenko, A. D. (*12463)
Kratochvíl, J.; et al. 14506
Krawietz, A. 14507
Kunin, I. A. *14508
Kurpa, L. V.; et al. *4256
Lehmann, Th.; et al. 1792
Leis, R. 11913
Lenjuk, M. P.; et al. 1793
Lovíšek, Ján 6625
Lur'e, L. I.; et al. 6626
Marzicin, B. M. 9250
McCarthy, Matthew F.; et al. 9244
Mihăilescu, M.; et al. 9251
Misjurkeev, I. V.; et al. 6626
Moodie, T. Bryant; et al. 11904,11915
Muller, Patrick 14509
Natrošvili, D. G.; et al. 1794
Nečas, Jindřich; et al. 11914
Needleman, A. 1795
Nemiš, Ju. M. 1796
Nguyen Quoc Son; et al. 4252
Norin, V. N.; et al. 6626
Novožilov, V. V.; et al. 11933
O'Leary, Thomas R.; et al. 9244
Payne, L. E.; et al. *9249
Pelissier, M. C. 9252
Pidstrigač, Ja. S.; et al. 1797
(Pisarenko, G. S.) (*12463)
Plaut, R. H. 9253
Procenko, V. S.; et al. 9242
Rabotjagov, D. D. *4255
Radeş, Mircea; et al. (*4217)
Rauf, Sk. A.; et al. 9255
Rogers, C.; et al. 11915,14497
Ruščic'ka, S. O.; et al. 9254
Ruščic'kiĭ, Ja. Ja.; et al. 9254
Rvačov, V. L.; et al. *4256,9242
Šaljuhin, Ju. N. 6627
Šamina, V. A.; et al. 11933
Sarkisjan, S. O. 14510
Savurbaev, A. S. 1798
Seet, L. T. C.; et al. 4247
Sen-Gupta, P. R.; et al. 9246
Sinha, S. B.; et al. 9255
Sklepus, N. G.; et al. *4256
Šlafman, Š. M. 11916
Stepanova, N. N.; et al. 1790
Štípl, Miloš; et al. 11914
Stojan, V. A. 1799
Stoljarov, V. O.; et al. 1797
Storåkers, B. 9256
Şuhubi, Erdoğan S.; et al. *6623
Suliciu, I. 9257
Suliciu, I.; et al. 9251
Tabarrok, B.; et al. 4257
Teodorescu, P. P. 4258
Učišvili, L. A.; et al. *4256
Ustinov, Ju. A. 11917
Vol'mir, A. S. *4259
Vorovič, I. I. 6628
Wheeler, Lewis 9258
Wood, A. D.; et al. 14502
Woźniak, C. 11918-11920
Yildiz, M. 14511
Zander, G.; et al. 1792
Zárubová, N.; et al. 14506
Zemell, S. H. 1800
Zimakov, N. N.; et al. 6622
Zorĭĭ, L. M.; et al. 1781
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 14498,14505
Bibliography: Pressure waves and elastic shells (1840)
Certain questions on simulation and systems control 1799
Collection: Heinrich, Helmut 11905
Equations of mathematical physics, 5 4246
Mathematical methods, and physical and mechanical fields, No. 1 1781
Mathematical methods, and physical and mechanical fields, No. 2 1797
Mathematical physics and functional analysis, No. V (1801)
Methoden und Verfahren der mathematischen Physik, Band 4 11913

73.35 *Continued*

Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 14502
Proceedings of the Scientific Conference of the Professorial and Teaching Staff of the Faculty of Mathematics and Physics of the Samarkand State Pedagogical Institute, Sixth (Samarkand, 1972) 1798
Theoretical and applied mechanics (Thirteenth Internat. Congr., 1972) 6628
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1780,14507

73.41 *Approximations and expansions*

Babadshanjan, H.; et al. 11921
Babenko, V. I. 1801
Bressan, Sergio 14512
Cerneau, Simonne; et al. 4260
Engel'breht, Ju. K. 6629
Ersov, V. V.; et al. 9259
Gajewski, H.; et al. 11921
Gromov, V. G.; et al. 9260
Ibragimov, K. H. (1807)
Kajuk, Ja. F. 9261,9262
Lakin, W. D. 4261
Nemiĭs, Ju. M. (1796)
Orlov, V. S.; et al. 9260
Reissner, E. 4262
Rjabcev, V. A.; et al. 9259
Sanchez-Palencia, Enrique; et al. 4260
Mathematical physics and functional analysis, No. V 1801

73.44 *Integral transforms, operational calculus*

Clements, D. L.; et al. 14513
Moodie, T. Bryant; et al. 14513
Rogers, C.; et al. 14513
Šindžikašvili, O. N. 4263
Collection: Equations of mathematical physics, 5 4263

73.45 *Integral equations*

Ahner, John F.; et al. 14514
Ahund-zade, M. Ju. 1802
Aleksandrov, V. M. 11922
Arutjunjan, N. H.; et al. 1803
Babeško, V. A. 9263
Bogy, David B. 6630
Chichinadze, R. K.; et al. 1805
Dmowska, R.; et al. 14515
Fil'štinskiĭ, L. A.; et al. 6631
Gaszyński, J. 1804
Gegelia, T. G.; et al. 1805
Gringaux, M. G.; et al. 6631
Haupt, P. 1806
Hsiao, George C.; et al. 14514
Ibragimov, K. H. 1807
Kostrov, B. V.; et al. 14515
Kuhn, G.; et al. 1808
Matczyński, M.; et al. 1808
Mhitarjan, S. M.; et al. 1803
Minasjan, A. F.; et al. 9264
Padgett, W. J.; et al. (14103)
Popov, G. Ja.; et al. 6632
Rose, L. R. F. 6633
Solodovnik, M. D.; et al. 11923
Tihonenko, L. Ja.; et al. 6632
Tonojan, V. S.; et al. 9264
Tsokos, Chris P.; et al. (14103)
Veksler, V. E. 6634
Vorovič, I. I.; et al. 11923
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 1806,1808

73.46 *Functional analysis*

Baillon, Jean-Bernard; et al. 11924
Debordes, Olivier 11925
Falk, Richard; et al. 14516
Halphen, Bernard; et al. 11924
Konašenko, S. I.; et al. *14517
Lazarjan, V. A.; et al. *14517
Mercier, Bertrand; et al. 14516
Piechocki, W. 9265
Slemrod, Marshall (4320)

73.47 *Operator theory*

Babadshanjan, H. 4264
Garbayo Martinez, Emilio 6635
Markov, K. 14518
Modugno, Marco 1809
Collection: Sansone, Giovanni 1809

73.49 *Calculus of variations, optimal control*

Aron, M. 1810
Arthurs, A. M.; et al. 14519
Baier, H. 6636
Baničuk, N. V. 6637,6638
Baničuk, N. V.; et al. 4265
Beatty, M. F.; et al. 14520
Beckert, H. 6639
Borkowski, Szczepan 14521
Breuer, S. 6640
Bublik, B. M.; et al. 1811
Capelo, António 6641
Cheverton, K. J.; et al. 14520
Cimatti, Giovanni (1787)
Corradi, L.; et al. 1812
Cowin, S. C.; et al. 4266
Danilov, V. N.; et al. 1811
Débordes, O.; et al. 4267
Duggan, R. C.; et al. 14519
Duvaut, G. 14522
Dym, Clive L. *14523
Fichera, G. (8016)
Fletcher, D. C. 9266
(Friedland, Lewis) *9270
Geveci, Tunç 6642
Goodman, M. A.; et al. 4266
Grioli, Giuseppe 6643,6644
Halphen, B. 9267
Kasemset, C.; et al. 1815
Kirakosjan, R. M. 9268
Kohler-Jobin, Marie-Thérèse 9269
Labisch, F. 6645
Laudiero, Ferdinando 1813
Lee, S. L.; et al. 1815
Maier, G.; et al. 1812
Marietta, M. G. 1814
Masur, E. F.; et al. 4268
(Michell, A. G. M.) *9270
Mironov, A. A.; et al. 4265
Mjasnikov, V. P.; et al. *14524
Mosolov, P. P.; et al. *14524
Murdoch, A. I. 6646
Nayroles, B.; et al. 4267
Nayroles, Bernard 6647
Nishino, F.; et al. 1815
Panagiotopoulos, P. D. 14525
Pham Dang Tuan; et al. 1816
Popelar, C. H.; et al. 4268
Raasch, Ingo 1817
Reddy, J. N. 4269
Rivlin, R. S.; et al. 11926
Sawyers, K. N.; et al. 11926
Spillers, William R. *9270
Stumpf, Helmut 1818,1819
Svirskiĭ, I. V. *9271
Terescenko, V. Ja. 11927
Valent, Tullio 9272,11928,11929
Verchery, Georges; et al. 1816
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 14522
Certain questions on simulation and systems control 1811
Conference on the Theory of Ordinary and Partial Differential Equations (Univ. Dundee, Dundee, 1972) (8016)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1819,6636,6645

73.53 *Differential geometry*

Astarita, G.; et al. 11934
Barkovskiĭ, L. M.; et al. 1820
Barta, J. 1821
Bloom, F.; et al. 4273
Breuer, Shlomo; et al. 6648
Cowin, Stephen C. 1822
Dikalov, A. I.; et al. 11930
Fedorov, F. I.; et al. 1820
Flügge, Wilhelm *11931
Grimaldi, Antonio 1823
Guz', O. M. 4270
Jarić, J.; et al. 14527
Kardestuncer, H. 4271
Kenyon, Douglas E. 1824
Kondo, Kazuo 6649,6650
Marinov, P. 14526
Markov, K.; et al. 14530
Minagawa, S. 1825
Mišicu, M. 6651
Noll, Walter 11932
Ogden, R. W. 1826
Perzyna, P. 1827,1828,9273,9274
Plavšić, M.; et al. 14527
Roseman, Joseph J.; et al. 6648
Sampaio, Rubens (6820)
Sarti, G. C.; et al. 11934
Sidoroff, F. 4272,14528a-b
(Sidoroff, F.) 14529
Sobotka, Zdeněk 11935
Vakulenko, A.; et al. 14530
Valanis, K. C. 14529
Walpole, L. J. 14531
Wang, Chao Chen 9275
Wang, Chao Chen; et al. 4273
Wośniak, C. 4274,9228,14532
Young, N. J. B. 14533
Žilin, P. A. 11936
(Zorski, Henryk) *11937
Zubov, L. M.; et al. 11930
Conference on Differential Geometry and Continuum Mechanics (Jabłonna, 1970) *11937
Continuum mechanics *11937
Differential geometry and continuum mechanics (Proc. Conf., Jabłonna, 1970) *11937

73.60 *Probability*

Lepore, John A.; et al. 4275
Stoltz, Robert A.; et al. 4275
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) 4275

73.62 *Statistics*

Bartos, Jerzy (14287)

73.65 *Numerical methods*

Ando, Y.; et al. 14541
Bagdasarjan, G. E. 6652
(Belytschko, T.) *9283
Béres, E. 14534
Bertholf, L. D.; et al. 11940
Booker, J. R.; et al. 11943
Brilla, J. 6653
Bulija, N. P. 14535
Casciaro, R.; et al. 9276
Chand, R.; et al. 9277
Ciavaldini, J.-F.; et al. 9278
Cvik, L. B. 11938
Davis, E. H.; et al. 11943
Dem'janenko, V. I. 9279
Di Carlo, A.; et al. 9276
Epstein, Marcelo; et al. 11939
Eršanov, Ž. S.; et al. *14536
Evseev, E. G. 9280
Ganev, Hristo G. 4276
Goudreau, G. L.; et al. 14537
Gruhne, Elke; et al. 14540
Haug, E. J.; et al. 9277
Herrmann, W.; et al. 11940
Janovský, Vladimír; et al. (1662)
Karimbaev, T. D.; et al. *14536
Kikuchi, Fumio 14538
Kiselev, O. M.; et al. 14565
Kuo, Reed; et al. 6654
Lascaux, P.; et al. 11941
Lepik, Ü.; et al. 4277
Lesaint, P.; et al. 11941
(Marcal, P. V.) *9283
Miyazaki, N.; et al. 14541
Murray, David W.; et al. 11939
Nänni, Jürg 6655
Nooshin, H. 11942
Oden, J. T.; et al. 14539
(Osias, J. R.) *9283
Panagiotopoulos, P. D. 1829
Pogu, M.; et al. 9278
Procházka, Petr; et al. (1662)
Rapoport, E. F.; et al. 14565
Rim, K.; et al. 9277
Ruge, P. 6656
Saks, E.; et al. 4277
Schincke, Erich; et al. 14540
Segal, V. M.; et al. 4278
Small, J. C.; et al. 11943
Soonets, K.; et al. 4277
Svirid, G. P.; et al. 4278
Taylor, R. L.; et al. 14537
Thompson, S. L.; et al. 11940
Tourneminc, G.; et al. 9278
Troesch, B. A.; et al. 9281,9282
Troesch, H. R.; et al. 9281
Tsai, Wan Tswan; et al. 6654
Wellford, L. C., Jr.; et al. 14539
Wineman, Alan S. 11944
Yagawa, G.; et al. 14541
Annual Meeting of the American Society of Mechanical Engineers, Winter (Houston, Tex., 1975) *9283
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 9276,11940,14539
Finite element analysis of transient nonlinear structural behavior (Winter Annual Meeting, Amer. Soc. Mech. Engineers, Houston, Tex., 1975) *9283
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 6653
Winter Annual Meeting of the American Society of Mechanical Engineers (Houston, Tex., 1975) *9283

76—XX FLUID MECHANICS, ACOUSTICS

76.00 *General*

Atkin, R. J.; et al. 6657,6658
Cebeci, Tuncer; et al. *4279
(Černyĭ, G. G.) *9288
Courant, R.; et al. *9284
Craine, R. E.; et al. 6657,6658
(Fiszdon, W.) *14543
Friedrichs, K. O.; et al. *9284
Grad, Harold 9285
(Išlinskiĭ, A. Ju.) *9288
Koh, S. L. 6659
(Kontovt, V. I.) (*3597)
(Kucharczyk, P.) *14543
(Lavrent'ev, M. A.) *9288
(Lohin, V. V.) (*3597)
(Mihaĭlov, G. K.) *9288
(Mushelišvili, N. I.) *9288
Ockendon, H.; et al. *9286
(Pančenkov, A. N.) *1831
(Parton, V.) (*1767)
Petrov, A. G.; et al. 9287
(Pietrzykowski, Jerzy) (*1770,*1772)
(Platonov, V.) (*1767)
(Prosnak, W. J.) *14543
Sedov, L. I. (*1765,*1767)
(Sedov, L. I.) *9288
Smith, A. M. O.; et al. *4279
Sokolnikoff, I. S. (*3597)
Stanjukovič, K. P. *1830
Tayler, A. B.; et al. *9286
Voinov, O. V.; et al. 9287
(Zel'dovič, Ja. B.) *9288
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 9285
Advanced problems and methods in fluid dynamics (Poland, 1975) *14542
Asymptotic methods in the theory of nonstationary processes *1831
Biennial Fluid Dynamics Symposium on Advanced Problems and Methods in Fluid Dynamics, XII (Poland, 1975) *14542
Fluid dynamics *14542
Fluid dynamics transactions, Vol. 5, Part I (Ninth Sympos. Advanced Problems and Methods in Fluid Mech., Kazimierz, 1969) *14543
Fluid and gas mechanics *9288
Fluid mechanics *9289,*14543
Mechanics in the USSR in the past 50 years in four volumes, Vol. 2 *9288
Multiphase media (*1770,*1772)
Nonstationary processes *1831
Strömungsmechanik *9289
Symposium on Advanced Problems and Methods in Fluid Mechanics, Ninth (Kazimierz, 1969) *14543
Tagung Strömungsmechanik (Frankfurt (Oder), 1975) *9289
Theory of multiphase media, Part I (*1770)
Theory of multiphase media, Part I: addenda et corrigenda (1771)
Theory of multiphase media, Part II (1771,*1772)
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 6659
Working Conference on Multiphase Media (Jabłonna, 1974) (*1770,*1772)

76.15 *Linear and multilinear algebra, matrix theory*

Laidlaw, W. G.; et al. 6660
Maltman, Kim; et al. 6660

76.30 *Functions of a complex variable*

Gheorghiță, Ștefan I. 11945
Gudžabidze, G. V. 11946
Kapranov, Ju. I. 4280

76.31 *Potential theory*

Čobanov, Ivan; et al. 4281
Hristova, Ivanka; et al. 4281
Weissinger, J. 4282

76.34 *Ordinary differential equations*

Bushard, Louis B. 6661
Butera, Luigi (9327)
Chŏng, Chae Pu; et al. 9290
Gubin, V. I.; et al. 11947
Hasegawa, Akira; et al. 4283
Li, Hye Lim; et al. 9290
Matkowsky, B. J.; et al. (9291)
Nosaki, Kazuhiro; et al. 4283
Ohsawa, Yukiharu; et al. 4283
Pirmatov, Š.; et al. 11947
Siegmann, W. L.; et al. (9291)
Unger, J. 6662
Vercheval, J. 4284
Warren, F. W. 1832
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 6662

76.35 *Partial differential equations*

Abdus Samad, Sk. 4285
Acharya, H. S.; et al. 9292
Adams, E.; et al. 11948
(Ahmadi, G.) 9301
Ahmadi, Goodarz 9293
Ames, W. F.; et al. 11948
Andreeva, T. A.; et al. 1833
Antoncev, S. N.; et al. *9294
Asaturjan, A. Š.; et al. 9325
Balescu, R.; et al. 4286
Barton, N. G. (1857,1858)
Beevers, C. E.; et al. 9295
Bennett, A. F. (1868)
Bergstrom, Robert W.; et al. 9296
Bertin, G.; et al. (4556)
Beyer, Klaus 1834
Bhatt, B. S.; et al. 14554
Biblarz, Oscar 9297
Boillat, Guy 9298,9299
Bois, Pierre-Antoine 14544
Boujot, Jacqueline 6663
Boyd, John P. 9300
Brenig, L.; et al. 4286
Broer, L. J. F. 11949
Brown, S. N.; et al. 11950
Bunimovič, A. I.; et al. 14545
Camenschi, Galina 11951
Cannell, P. A. 6664
Carmi, S.; et al. 6673
Chandna, O. P.; et al. 4287,9319
Chandra, K.; et al. 4305
Chang, Kung Ch'ing 1835
Chaudhuri, Kripasindhu 11952
Chen, T. S.; et al. 4294
Chopra, M. G. 1836
Christiansen, Peter L. (*1884)
Ciavaldini, Jean-François; et al. 1837
Čigarev, V. N.; et al. 4288
Cogley, Allen C. 1838
Cogley, Allen C.; et al. 9296
Cowin, S. C. 9302
Cowin, S. C.; et al. 9301
Cozma, C. 9303
Craine, R. E.; et al. 9295
Cvetkov, A. P. 11953
Dagan, G.; et al. (9329)
Dandapat, B. S.; et al. 4289
Debnath, L. (14804)
Derbenev, S. A. 9304
Diesperov, V. N.; et al. 11954
Dmitriev, N. M.; et al. 1839
Douglas, Jim, Jr. 14546
Drew, Donald A. 6665
Dulov, V. G. 6666
Dutton, John A. 4290
Fedotkin, I. M.; et al. 4288
Ffowcs Williams, J. E.; et al. 1856
Förste, Joachim 9305
Fox, David W. 4291
Frisch, H. L.; et al. (9711)
Gabov, S. A.; et al. 11955
Gadžiev, Š. A. 11956
Galdi, Giovanni P. (8055)
Galdi, Giovanni P.; et al. 6672
Galimov, K. Z.; et al. 9306
Garg, M. R.; et al. 4287
Garifullin, F. A.; et al. 9306
Gaur, Madhukar; et al. 4304
Geffen, Nima; et al. 4292
Ghoshal, S. 6667
Gordinskiĭ, L. D.; et al. 1833
Gorškov, A. G. 1840
Gupta, A. S.; et al. 4289
Hardisty, N. 1841,4293
Hayes, M. 9307
Howe, M. S. 1842
Hristov, Hristo Iv. 1843
Hsieh, S.-H.; et al. 9308
Ichikawa, Yoshi H.;et al. (9328)
Ignat, Margareta 9309
Irmay, S.; et al. 1844
Itaya, Nobutoshi 9310
Jain, D. L.; et al. (9355)
Jain, R. K.; et al. 9292
Jones, D. S.; et al. 1845
Joseph, D. D.; et al. 4294
Kanwal, R. P. (9355)
Karpman, V. I. *9311
Kažihov, A. V.; et al. *9294
Kolesov, V. V.; et al. 9324
Kolosov, B. V.; et al. 4295
Konno, Kimiaki; et al. (9328)
Konorski, Andrzej 9312
Krommes, John A. 4296
Kulikovskiĭ, A. G. 9313
Ladyženskaja, O. A. 4297
Lange, H. 14547
Lavie, A. M. 9314
Levine, L. E. 9315
Lichnerowicz, André (12114)
Liron, N.; et al. 6668
Lomakin, L. A.; et al. 11954
Longuet-Higgins, Michael S. 4298
Lovely, D. J.; et al. 1856
Lozano, C.; et al. 6669
Lur'e, M. V.; et al. 1839
Lustman, Levi; et al. 4292
Malov, Ju. I.; et al. 9316
Mariyappa, B. V.; et al. 9322
Martinson, L. K.; et al. 9316,9317
McLeod, J. B. 14548
Meyer, R. E.; et al. 6669
Miles, John W. 9318
Minzoni, A. A. 14549
Mishra, R. S.; et al. 9319
Mitsuhashi, Teruo; et al. (9328)
Monahov, V. N. 1846
Morgan, J. D. 4299,11957
Morgan, J. D.; et al. 1845
Murray, J. C. 1847,6670
Nakata, Isamu 9320
Narasimha Murthy, S.; et al. 4303
Noblesse, F.; et al. (9329)
O'Carroll, M. J. 11958
Odell, Garrett M.; et al. (9711)
Ono, Hiroaki 14550
Oskolkov, A. P. 14551
Ovčinnikova, S. N.; et al. 9324
Padula, Mariarosaria; et al. 14552
Paiva-Veretennicoff, I.; et al. 4286
Panaitescu, Valeriu 4300
Pavlov, K. B.; et al. 9316,9317
Pogu, Marc; et al. 1837
Pop, Ioan 4301
Popov, D. A. 4302
Prabhakar Ram, R. K.; et al. 4303
Quentrec, B. 9321
Radicati, L. A.; et al. (4556)
Ram, Rishi; et al. 4304
Rathy, R. K.; et al. 4305
Rawlins, A. D. 6671
Rhodes-Robinson, P. F. 4308
Rionero, Salvatore; et al. 6672
Rivkind, V. Ja. 11959
Romanova, N. N. 1848
Roseau, Maurice 14553
Rosenblat, S. 1849
Rudraiah, N.; et al. 9322
Russo, Remigio; et al. 14552
Sacheti, N. C.; et al. 14554
Sánchez-Palencia-Hubert, Jacqueline (1859)
Sanguineti, Giannina 9323
Saran, L. A.; et al. 9325
Sarma, Gabbita S. R. 14555
Schaeffer, David G. 1850
(Schnute, Jon) (3187)
Sekerž-Zen'kovič, S. Ja.; et al. 11955
(Shahinpoor, M.) 9301
Sharma, V. D.; et al. 4304
Shen, M. C. (9330)
Shinbrot, Marvin (3187)
Sichel, M.; et al. (1860)
Šifrin, E. G.; et al. 4295
Sinha, S. C.; et al. 6673
Siperšteĭn, B. I. 14545
Solomjak, T. B. 1851
Song, Oh'ang Ho 9347
Spiegel, E. A.; et al. 9308
Spielvogel, E. R.; et al. 6674
Spielvogel, L. Q.; et al. 6674
Srivastava, L. M. 1852
Stampacchia, Guido 1853
Stewartson, K.; et al. 11950
Stiassnie, M.; et al. 1844
Straughan, B. 1854
Summers, D. 4306
Tani, Atusi 9326
Tournemine, Georges;et al. 1837
Ursell, F. 4307
(Ventcel', T. D.) 1853
Viaud, Dominique 6675
Vorovič, I. I. (6628)
Vorovič, L. S. 11960
Walter, Wolfgang 1855
Webb, G. R.; et al. 9301
Weinberger, H. F. 4309
Whitham, G. B. (9331)
Wilhelm, H. E.; et al. 6668
Włodarczyk, E. 4310
Yin, Y. K.; et al. (1860)
Acoustic propagation *11961
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 9313,14546,14553
Astronautics *11962
Aviation *11962
Bibliography: Pressure waves and elastic shells 1840
Boundary value problems of the theory of heat conduction 1833
Collection:
Bhatnagar, P. L. 4305
Manea, Gheorghe 9303
Petrovskiĭ, Ivan Georgievič (1901-1973), II 1853
Israel Annual Conference on Aviation and Astronautics, Eighteenth (Tel Aviv/Haifa, 1976) *11962
Journées d'études sur la théorie de la propagation acoustique *11961
Ordinary and partial differential equations (Proc. Conf., Univ. Dundee, Dundee, 1974) 14548

76.35 *Continued*

Partial differential equations (Proc. Sympos. Pure Math., Vol. XXIII) 4309
Problems: Mathematical Analysis, No. 5 1851,14551
Proceedings of the Israel Annual Conference on Aviation and Astronautics, Eighteenth (Tel Aviv/Haifa, 1976) *11962
Propagation acoustique *11961
Questions of mathematical cybernetics and applied mathematics, No. 1 11956
Seminar-Conference on the Qualitative Theory of the Differential Equations that arise in Hydrodynamics (Akademgorodok, 1975) 1846
Theoretical and applied mechanics (Thirteenth Internat. Congr., 1972) (6628)
Théorie de la propagation acoustique *11961
Theory of acoustic propagation *11961
Theory of multiphase media, Part I: addenda et corrigenda 1771
Theory of multiphase media, Part II 1771
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 1855

76.41 *Approximations and expansions*

Arie, Mikio; et al. 11966
Balsa, T. F. 11963
Barton, N. G. 1857,1858
(Bhatia, P. K.) 11965
Bush, William B. 11964
Butera, Luigi 9327
Dagan, G.; et al. 9329
Denis, J.; et al. (6887)
Denoyelle, J.; et al. (6887)
Džiskariani, A. V. 4311
Eltayeb, I. A. 11965
Ichikawa, Yoshi H.; et al. 9328
Joseph, Daniel D.; et al. 6676
Kiya, Masaru; et al. 11966
Konno, Kimiaki; et al. 9328
Leonov, A. I.; et al. 4312
Matkowsky, B. J.; et al. 9291
Miropol'skiĭ, Ju. Z.; et al. 4312
Mitsuhashi, Teruo; et al. 9328
Noblesse, F.; et al. 9329
Popov, A. V. 4313
Sánchez-Palencia-Hubert, Jacqueline 1859
Sattinger, D. H. 4314
Shen, M. C. 9330
Sichel, M.; et al. 1860
Siegmann, W. L.; et al. 9291
Smeyers, P.; et al. (6887)
(Steiner, J. M.) 11965
Sturges, Leroy; et al. 6676
Tamura, Hisataka; et al. 11966
Van Dyke, Milton *4315
Veldman, Arthur Eduard Paul *4316
Whitham, G. B. 9331
Yin, Y. K.; et al. 1860
Collection: Equations of mathematical physics, 4 4311
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 11964

76.45 *Integral equations*

James, Richard M. 11967
Kittappa, R.; et al. 4317
Kleinman, R. E.; et al. 4317
Kufarev, P. P.; et al. 4318
Li, Ch'ae Pok 9332-9334
Moore, D. W. 4319
Muratov, R. Z.; et al. 9335
Prjažinskaja, V. G.; et al. 4318
Prosperetti, Andrea 1861
Ueno, Sueo 1862
Vinogradov, A. G.; et al. 9335
Collection: Bhatnagar, P. L. 1862

76.47 *Operator theory*

Ritchie, Gordon E. 11968
Slemrod, Marshall 4320

76.49 *Calculus of variations, optimal control*

Anderson, N.; et al. 4321
Arthurs, A. M.; et al. 4321
Baiocchi, Claudio 9336
Benach, Robert; et al. (6707)
Caffarelli, Luis A. (13696)
Chang, Ch'ang Hun 9337,9338
Doi, Masao 14556
Finn, Robert 6677
Gerhardt, Claus (3562)
Gilardi, Gianni 1863
Jain, R. K.; et al. 11970
Müller, Ingo; et al. (6707)
Murray, J. C. 14557
Pironneau, O. 11969
Predvoditelev, A. S. (*9223)
Sachidananda, S. V.; et al. 11970
Siperšteĭn, B. I. (6920)
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) 11969
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 9336
Symposia Mathematica, Vol. XIV 6677

76.53 *Differential geometry*

Acker, Constantin L. 4322
Arcidiancono, Giuseppe (1903)
Atkin, R. J.; et al. (6658)
Chandna, O. P.; et al. 14558
Cissoko, Mahdy 11971
Ciubotariu, Corneliu D. 6678
Craine, R. E.; et al. (6658)
Davis, W. R.; et al. 6680
Drouot, R.; et al. 9339
Dwivedi, R. P. 6679
Greco, Antonio 4323
de Groot, Sybren Ruurds; et al. 11972
Guichelaar, Jan; et al. 11972
Kaloni, P. N.; et al. 14558
Kenyon, Douglas E. (1824)
Kox, Anne Jacob; et al. 11972
Lucius, M.; et al. 9339
Marris, A. W. 1864
Moses, H. E. 4324
Oliver, D. R., Jr.; et al. 6680
Roetman, E. L. (1904)
Saini, G. L. 6681
Spyrou, N. 6682

76.58 *Global analysis, analysis on manifolds*

Ebin, D. G.; et al. (13980)
Marsden, J. E.; et al. (13980)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 2 (13980)

76.60 *Probability*

Ahmadi, Goodarz 4325
Bécus, Georges A.; et al. 11973a-c
Cozzarelli, F. A.; et al. 11973a-c
Galkin, L. M. (*12094)
Gel'cinskiĭ, B. Ja. 4326
Hauge, E. H.; et al. (14685)
Hinch, E. J. 14559
Hoffmann, Patrick 6683
Kawahara, Takuji 9340
Klauder, J. R.; et al. 14560
Kollmann, Wolfgang 1865
Kranenburg, C. 11974
Martin-Löf, A.; et al. (14685)
Montgomery, David 6684
Narnhofer, H.; et al. 14560
Piest, J. 1866
Port, Sidney C.; et al. (6247)
Stone, Charles J.; et al. (6247)
Velarde, M. G.; et al. 14686
Weinstock, J. 14561
Asymptotic methods and stochastic models in wave propagation problems 4326

76.62 *Statistics*

Gates, D. J. (14696)

76.65 *Numerical methods*

Acrivos, A.; et al. 6688
Allami, K. 6685
Argyris, J. H.; et al. 6686
Bahrah, S. M.; et al. 1867
Baines, P. G. (9602)
Baker, A. J. 4328
Barrett, Kenneth E. 14562
Belocerkovskiĭ, S. M. 9341
Bennett, A. F. 1868
Bernstein, Barry; et al. 1873
Botros, Youssef Zaki 11975
Briggs, D. G. 11976b
(Briggs, D. G.) 11976a
Ciavaldini, Jean-François; et al. 9342
Comincioli, Valeriano 1869
Diersch, Hans-Jörg 1870
Esposito, V. J.; et al. 11976a
(Esposito, V. J.) 11976b
Fitzgerald, D.; et al. 1875
Fortin, M. 9344a-b
Fortin, M.; et al. 9343
Gorovaja, E. N.; et al. 1871
Gostev, P. M. 14564
Greig, I. S.; et al. 9345
Gubkov, E. V.; et al. 1867
Gururaja, J.; et al. 4333
Harten, A.; et al. (1640
(Hewitt, B. L.) *4327
Hyman, J. M.; et al. (1640
(Illingworth, C. R.) *4327
Ivanov, M. Ja.; et al. 4329
Kern, K.; et al. 1872
(Keyfitz, B.) (1640
Kireev, V. I.; et al. 4329
Kurtz, L. 14566
Lavan, Zalman; et al. 1873
Lax, P. D.; et al. (1640
(Lock, R. C.) *4327
Mader, R.; et al. 1872
(Mangler, K. W.) *4327
Mareczek, G.; et al. 6686
McCormack, P. D.; et al. 1875
(McDonnell, J. H.) *4327
Morel, Josette; et al. 1873
Morris, J. Ll.; et al. 9345
Mozžilkin, V. V.; et al. 11978
(Nihoul, Jacques C. J.) *14563
Peyret, R.; et al. 9343
Porsching, T. A.; et al. 11976a
(Porsching, T. A.) 11976b
Potkin, V. V. 1874
Prasad, K. Krishna; et al. 4333
Prasad, Phoolan; et al. 14567
Ramshaw, John D.; et al. 4330
Raviart, P.-A. 4331
(Richards, Catherine) *4327
Rivkind, V. Ja.; et al. 1871
Rogers, Joel C. W. 6687
Seebass, R.; et al. 11979
Segal, V. M.; et al. (4278)
Shin, Yong Woo; et al. 4332
Song, Ch'ang Ho 9346,9347
Srinivas, K.; et al. 4333
Svirid G. P.; et al. (4278)
Tagare, S. G.; et al. 14567
Temam, R.; et al. 9343
Tournemine, Georges; et al. 9342
Traas, C. R. *9348
Trapp, John A.; et al. 4330
Valentin, Richard A.; et al. 4332
Vologinov, A. V. 11977
Vologinov, A. V.; et al. 11978
de Vries, R. W. 9349
(Walkden, F.) *4327
Youngren, G. K.; et al. 6688
Yu, N. J.; et al. 11979
Aeronautical fluid dynamics *4327
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 11979
Computational methods and problems in aeronautical fluid dynamics (Proc. Conf., Univ. Manchester, Manchester, 1974) *4327
Conference on Computational Methods and Problems in Aeronautical Fluid Dynamics (Univ. Manchester, Manchester, 1974) *4327
Continental shelf dynamics (Seventh Liège Colloq. on Ocean Hydrodynamics, Liège, 1975) *14563
Fluid dynamics *4327
Gas dynamics and heat transfer, No. 4 1871
Liège Colloquium on Ocean Hydrodynamics, Seventh (Liège, 1975) *14563
Proceedings of the Conference on Basic Problems of Numerical Mathematics, Third (Prague, 1973) 4331
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 9345
Ocean hydrodynamics *14563

78—XX OPTICS, ELECTROMAGNETIC THEORY

78.00 *General*

Broer, L. J. F. 9350
Landau, Lev D.; et al. (*4503)
Lifšic, E. M.; et al. (*4503)
(Lohin, V. V.) (*1764,*1766)
(Parton, V.) (*1766)
(Platonov, V.) (*1766)
Sedov, L. I. (*1764,*1766)
Wunsch, Gerhard *11980-*11982
Convegno sulla Teoria Matematica dell'Elettromagnetismo (INDAM, Roma, 1974) (2379)
Convegno sulla Transformazioni Quasiconformie Questioni Connesse (INDAM, Roma, 1974) (2379)
Elettromagnetismo (2379)
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78.00 *Continued*

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Symposia Mathematica, Vol. XVIII (2379)
Teoria matematica dell'elettromagnetismo (2379)
Trasformazioni quasiconformi (2379)

78.01 *History and biography*

Euler, Leonard (*7180)
(Fellmann, Emil Alfred) (*7180)
(Habicht, Walter) (*7180)

78.30 *Functions of a complex variable*

Burge, R. E.; et al. 4334
Fiddy, M. A.; et al. 4334
Greenaway, A. H.; et al. 4334
Ross, G.; et al. 4334

78.31 *Potential theory*

Nedjalkov, I. 6689
Rutelli, Giovanni 9351

78.33 *Special functions*

Lun, E.; et al. 6690
Pogorzelski, R. J.; et al. 6690
Schnizer, Bernhard 9352

78.34 *Ordinary differential equations*

Bahar, E. 1876
Daboul, Jamil 9353
Eršov, E. I.; et al. 14568
Jaulent, M. 4335
Maisser, Peter; et al. (14482a)
Steigenberger, Joachim; et al. (14482a)
Tarasov, R. P.; et al. 14568
Varava, V. P.; et al. 14568
Ždanow, V. I. 4336

78.35 *Partial differential equations*

Agranovič, M. S. 4337
Arsen'ev, A. A. 6691
Babič, V. M.; et al. *14569
Barkovskiĭ, L. M. 1877
Bartoš, I.; et al. 1878
Boersma, J.; et al. 14570
Boĭko, A. I.; et al. 4338
Boillat, Guy 14571
Bolotovskiĭ, B. M.; et al. 4339
Bradley, C. J. *14572
Buldyrev, V. S.; et al. *14569
Chen, Peter J.; et al. 4340
Christiansen, Peter L. *1884
Ciarkowski, A. 6692
Crupi, Giovanni 9354
Fargue, Daniel 1879
Fialkov'kiĭ, O. T. 6693
Fronczek, Ronald C.; et al. 11984
Gérard, Alain 14499
Goldman, Martin V.; et al. (14658)
Grad, Harold (9285)
Haus, H. A.; et al. 11983
Ivanov, V. P.; et al. 4338
Jain, D. L.; et al. 9355
Kanwal, R. P.; et al. 9355
Kerns, David M. 9356
Kobayashi, Masanori 1880
Kogelnik, H.; et al. 11983
Krasovskiĭ, Ju. P.; et al. 14573
Ledinegg, E.; et al. 1881
Lee, S. W.; et al. 14570
Lianis, G.; et al. 4341
Mäca, F.; et al. 1878
McCarthy, Matthew F.; et al. 4340
(Molotkov, I. A.) *14569
Nedelin, A. A. 4342
Papousek, W. 1882
Papousek, W.; et al. 1881
Popov, A. V. (4313)
(Popov, M. M.) *14569
Porkolab, Miklos; et al. (14658)
Richoz, A. 9357
Rubinowicz, A. 6694
Ščepkin, G. G.; et al. 14573
Schnizer, B.; et al. 1881
Sherman, George C.; et al. 1883
Škol'nikov, P. L.; et al. 6695
Stamnes, Jakob J.; et al. 1883
Stavroudis, Orestes N.; et al. 11984
Stoljarov, S. N.; et al. 4339
Strazev, V. I.; et al. 6695
Terleckiĭ, A. Ja. 11985
van de Ven, Alphons Adrianus Francisca (*6617)
Whicker, D.; et al. 4341
Wünsch, V. (14740)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 (9285)
Mathematical questions in the theory of wave propagation, 7 4342

78.41 *Approximations and expansions*

Bahar, E. 9358
Ehrich, Matthias 9359
Fenčenko, V. M. 1885
Filippov, V. B. 4343
Ivanov, V. I. 4344-4346
Kiselev, A. P. 4347
Lewis, J. A.; et al. 4348
Morrison, J. A.; et al. 4348
Mathematical physics and functional analysis, No. V 1885
Mathematical questions in the theory of wave propagation, 7 4343,4347

78.45 *Integral equations*

Ahner, John F. 6696
Aichelburg, P. C.; et al. 9360
Beig, R.; et al. 9360
Hurd, R. A. 1886
Ivanov, V. V. 4349,4350
Lo Surdo, C. 9361
Savenko, P. A.; et al. 11986
Senior, T. B. A. 4351
Šestopalov, V. P.; et al. 4352
Sologub, V. G.; et al. 4352
Veliev, E. I.; et al. 4352
Voĭtovič, N. N.; et al. 11986

78.46 *Functional analysis*

Picard, Reiner 11987

78.47 *Operator theory*

Landau, H. J. 11988
Mason, D. P. 4353
Meidan, Reuven 9362

78.49 *Calculus of variations, optimal control*

Anderson, N.; et al. 1887
Arthurs, A. M.; et al. 1887
Hutter, K. 6697
Noyola-Isgleas, Arturo 1888
Predvoditelev, A. S. (*9223)
Viano, G. A. 4354

78.53 *Differential geometry*

Wódkiewicz, K. (4549,4550)

78.60 *Probability*

Barakat, Richard 1889
Beran, Mark J.; et al. 6698
Bourret, R. 1890,4355
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Hong, Shin Tsy; et al. 4357
Ishimaru, Akira; et al. 4357
Kohler, W.; et al. 1893
Kolodjaznyĭ, B. G. 1894
Lerche, I. 4356
Mandel, L.; et al. 11989
Papanicolaou, G. C.; et al. 1893
Ryžov, Ju. A. 6699
Sreenivasiah, I.; et al. 4357
van Vliet, K. M. 4358
Whitman, Alan M.; et al. 6698
Wolf, E.; et al. 11989
Zahar-Itkin, M. H. 11990
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78.65 *Numerical methods*

Csendes, Z. J. 1895
Iljuhin, A. G.; et al. *4359
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Vahlaeva, L. F.; et al. 14574
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80—XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER

80.00 *General*

(Cohen, Donald S.) *6701
(Lohin, V. V.) (*1764,*1766)
(Parton, V.) (*1766)
(Platonov, V.) (*1766)
Sedov, L. I. (*1764,*1766)
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Quantum chemistry *6701

80.30 *Functions of a complex variable*

Pyhteev, G. N. 4360

80.34 *Ordinary differential equations*

Baltov, A. (1775)
Kosiński, W. 6702

80.35 *Partial differential equations*

Babenko, Ju. I. 1896
Batra, R. C. 9363
Bazalĭĭ, B. V.; et al. 4361
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Bukatar', M. I.; et al. 4364
Casas-Vazques, J.; et al. 6703
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Green, A. E.; et al. 9364
Hanyga, A. 4362
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Il'jušin, A. A.; et al. (*9232)
Kalašnikov, A. S. 14575
Lambermont, J.; et al. 9367
Laws, N.; et al. 9364
Lebon, G.; et al. 4365,6703,9367
Lenjuk, M. P. 4363
Lenjuk, M. P.; et al. 4364
Luccioni, Mariá A. Villalonga de 11994
Marinov, P.; et al. 4365
Mehta, B. S. 6704
Pobedrja, B. E.; et al. (*9232)
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80.45 *Integral equations*

Abdrahmanov, M. A. 9368
Budak, B. M.; et al. (1676)
Černysov, A. D. 4367
Kremer, M. 9369
Mihlin, S. G. (10823)
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80.46 *Functional analysis*

Dresden, M.; et al. 4368
Gambardella, P.; et al. 4368
Ostebee, A.; et al. 4368
Perzyna, P. 14576

80.47 *Operator theory*

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Garrido, L.; et al. 1900

80.49 *Calculus of variations, optimal control*

Benach, Robert; et al. 6707
Bhargava, S. (3548)
Bhargava, S.; et al. 4369
Duffin, R. J.; et al. 4369
Hasiewicz, Zygmunt; et al. 14577
Hutter, K. (6697)
Müller, Ingo; et al. 6707
Murdoch, A. I. (6646)
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Elżanowski, M. (3752)

80.60 *Probability*

Biot, M. A. 14578

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Kononenko, G. N.; et al. *14579
Lurina, A.; et al. 14580
Mihaĭlov, V. N. 11998
Polak, S. J. (9102)
Sachs, A. (9103)
Song, Ch'ang Ho 9371
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Voznjuk, L. F.; et al. *14579
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81.01 *History and biography*

(Danilov, Ju. A.) (*2404)
Pauli, Wolfgang (*2404)
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81.02 *Logic and foundations*

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Malzan, Jerry 9372
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81.04 *Set theory*

Allen, Allen D. 9373

81.05 *Combinatorial theory, graph theory*

Newman, D. J.; et al. 14585
Sasaki, Tateaki 12001
Sterman, George 12002
Wallis, Jennifer; et al. 14585

81.06 *Order, lattices, ordered algebraic structures*

Czelakowski, Janusz (10095)
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Rüttimann, Gottfried T. 14586
Stachow, E. W.; et al. 1910

81.15 *Linear and multilinear algebra matrix theory*

Sarkar, S. 9376

81.17 *Non-associative rings and algebras*

Demopoulos, William 12004
(Mączyński, M. J.) 12004

81.20 *Group theory and generalizations*

Karpman, G. 4373

81.22 *Topological groups and Lie theory*

Ahmad, S. M. W.; et al. 14587
Aliŝauskas, S. I. (10512)
Aliŝauskas, S. J.; et al. 1911,(10511)
Andersen, C. M.; et al. 9377
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Assimakopoulos, M.; et al. 12006
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Bauhoff, W. 1913,14588
Bloore, F. J.; et al. 12006
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Boiteux, M. 14589
Boya, Luis J. 9378
Boyer, C. P.; et al. 4376
Brennich, R. H. (2880,2881)
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van den Broek, P. M. 14591
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(Butler, P. H.) 9396
Carmeli, M.; et al. (*7687)
Cattaneo, U. (10478)
Červjakov, I. B.; et al. (5391)
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de Concini, C.; et al. 12007
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Cvitanović, Predrag 9380
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Dondi, P. H.; et al. 4378
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Fet, A. I.; et al. *14599
Floratos, E. G.; et al. 6714
Fradkin, E. S.; et al. 4375,14593
Friedman, Kenneth A.; et al. 4380
Gal-Ezer, Eldad 4381
Gard, Patricia; et al. 4374
Ghobrial, I. R.; et al. 12006
Green, H. S.; et al. 1921
Guha, Dipak Kumar; et al. 9381
Guth, Alan H.; et al. 14592
t'Hooft, G. 1923
t'Hooft, G.; et al. 1922
Hoogland, H. 6715
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Hurley, William J.; et al. 12008
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Jankauskas, K. I.; et al. 14600
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Judd, B. R.; et al. 1919,1924
Kaku, Michio; et al. 4380
Kalinauskas, R. K.; et al. 6716,14594
Kamefuchi, Susumu; et al. 12013
Kerimov, G. A. 12009
Kogiso, Motokazu; et al. 14595
König, E.; et al. 12010
Kosiński, P.; et al. 6717
Kremer, S.; et al. 12010
Kyriakopoulos, E.; et al. 6714
Levi, D.; et al. 4377
Maekawa, Takayoshi 4382
Malin, S.; et al. (*7687)
Mardin, A.; et al. 14596
Maślanka, P.; et al. 6717
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Miglietta, F. 4383-4386
Miller, W., Jr.; et al. 1924
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Moret-Bailly, J.; et al. 12011
Morris, Hedley C. 9383
Moshinsky, M.; et al. 4377
Nadžakov, E.; et al. 9393
Nahm, W.; et al. (12844,12845)
Narusis, J. 14597
Nath, Pran; et al. 6710
Nelipa, N. F.; et al. (5391)
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Rao, M. Kondala; et al. 6719
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Rittenberg, V.; et al. (12844,12845)
Rosen, Gerald 9389
Ruggeri, G. J. 9390
Rumer, Ju. B.; et al. *14599
Sabaliauskas, L.; et al. 14600
Sakamoto, Jiro; et al. 9392
Sardanašvili, G. A. 6718
Savukynas, A. J.; et al. (*4427)
Scheunert, M.; et al. (12844,12845)
Seiler, Rudolf; et al. 12014
Simon, Jacques (476)
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Streater, R. F.; et al. 14596
Sudarshan, E. C. G.; et al. 12008
Švarc, A. S. 4388
Takahashi, Hidewo; et al. 14595
Taurinskas, M. V.; et al. 6716
Tjutin, I. V.; et al. 14593

81.22 *Continued*

Vanagas, V. V.; et al. 6716,9393,(10511),14594
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Utiyama, Ryoyu; et al. 9392
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Venkatarayudu, T.; et al. 6719
Vitiello, G.; et al. 12007
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Wigner, E. P.; et al. 14587
Williams, David N.; et al. 12014
Winternitz, P.; et al. 1924,(2891)
Wolf, Kurt Bernardo 6720
Wollenberg, L. S. 9395
Wybourne, Brian G. 9396
Yamazaki, Masatoshi 12015
Yellin, Joel; et al. 9377
Zaĭcev, G. A. *9397
Tables: Group properties 9396

81.28 *Measure and integration*

Maheshwari, Amar (2906)
Prugovečki, E. 4389,4390
Regge, Tullio 12016
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81.30 *Functions of a complex variable*

Barkai, D.; et al. 1930
Cornille, H. 6721
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Duff, M. J.; et al. 4391
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Frank, W. M. 6722
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Hleskov, V. I. 14601
Isham, C. J.; et al. 4391
Khan, Irshadullah 9399
Konetschny, W. 6723
Lyberg, M. D. 6724
Martin, André 9400
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Suranyi, P.; et al. 6728
Trần Hữu Phát 4392
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81.31 *Potential theory*

Aneva, B. L.; et al. 12018
Karčev, N. I.; et al. 12018
Rizov, V. A.; et al. 12018

81.32 *Several complex variables*

Auberson, G.; et al. 12019
Breitenlohner, P.; et al. 14602
Dumitru, D. R. 6729
Epele, L.; et al. 12019
Karpf, A. D.; et al. 6731
Karpf, Armin D. 6730
Khuri, N. N. 9402
Liehl, H. J.; et al. 6731
Maison, D.; et al. 14602
Otterson, P. 1934
Tarski, J. 9403

81.33 *Special functions*

Amaya, A.; et al. 1936
Andriambololona, Raoelina 12020
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Rostovskiĭ, V. S.; et al. 6732
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81.34 *Ordinary differential equations*

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Propin, R. H. 9407
Rejto, P. A.; et al. (4431)
Setō, Noriaki 6735
Simon, Barry 4397
Sinha, Kalyan; et al. (4431)
Sorg, M. 9408
Suttorp, L. G. 14606

81.35 *Partial differential equations*

Alekseenko, V. N. 14607
Azzarelli, Teodoro; et al. 9409
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Benci, V.; et al. 6736
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Bolotovskiĭ, B. M.; et al. (4339)
Bopp, Fritz 4398
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Clément, C. 12023
Collas, Peter; et al. 9409,9411
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Feneuille, S.; et al. 6740
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Fröhlich, Jürg 9413
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Glassey, R. T.; et al. 1947
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Isham, C. J.; et al. 12024
Jafaev, D. R. 9414
Jenkins, J. D. 6741,6742
Jevicki, A.; et al. 14610
Kaup, D. J. 6743
Kingston, J. G.; et al. 12026
Kodama, Yuji; et al. 9415,14611
Koval', L. N. 9416
Krüger, J. G. 6744
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MacDowell, Samuel Wallace 9417
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Newell, Alan C.; et al. 12027
Nikitina, N. S.; et al. 4402
Nohl, Craig R. 9419
Oikawa, Masayuki; et al. 14616
Onofri, Enrico 14613
Pletjuhov, V. A.; et al. 6739
Popov, V. S. 14614
Ragnisco, O.; et al. 14612
Raine, D. J.; et al. 12022
Redekopp, Larry G.; et al. 12027
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Sokolov, V. V. 4403
Stoljarov, S. N.; et al. (4339)
Taylor, John R.; et al. 6746
Theumann, Alba 6747
Thickstun, W. R. 12029
Thun, H.-J. 14615
Tolhoek, H. A. 6748
Tourrenc, P.; et al. 12030
Tucker, R. W.; et al. 9411
Wadati, Miki; et al. 9415,14611
Williams, S. A.; et al. 9412
Winternitz, P.; et al. 4399
Yajima, Nobuo; et al. 14616
Zaharov, V. E.; et al. 14617
Zimerman, A. H.; et al. 1946
Zirilli, F.; et al. 6736
Žukovskiĭ, V. Č.; et al. 4402

81.39 *Finite differences and functional equations*

Welch, L. C. 4404

81.41 *Approximations and expansions*

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Cartier, Pierre 6751a-b
Cirelli, Renzo; et al. (2870),9424,9425
Cotta-Ramusino, P.; et al. 9424
Dowker, J. S. 6752
Driessler, W. 4411
Eckmann, J.-P.; et al. 6753
Epstein, H.; et al. 6753
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Feldman, Joel S.; et al. 4412
Fortunato, D.; et al. 12033
Fredricks, David 4413
Fröhlich, J.; et al. 6753
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Glaser, V.; et al. 12032
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Olive, D. I. 6757
Osterwalder, Konrad; et al. 4412
Otterson, P. (1934)
Pačeva, S. I.; et al. 9433
Parenti, C.; et al. 14619
Park, Yong Moon 6758
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Reeh, H.; et al. 9427

81.46 *Continued*

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Selleri, F.; et al. 12033
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Snellman, Håkan 14621
Steinmann, O. 14622
Strocchi, F.; et al. 6759,14619
Todorov, I. T.; et al. 14618
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Velo, G.; et al. 14619
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Séminaire Bourbaki (1972/1973: Exposés Nos. 418-435) 6751b

81.47 *Operator theory*

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Amundsen, Per Amund 9435
Aoyama, Shogo; et al. 12036
Atkinson, D.; et al. 14624
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Bergère, M. C.; et al. 12037
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Bove, A.; et al. 12038
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Cantoni, Vittorio 6760
Clark, T. E.; et al. 4417
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Courbage, M. 6761a-b
Curci, G.; et al. 6762
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Davies, R. W.; et al. 12039
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Dittrich, W. 9439
Dollard, John D. 4419
Driessler, W. 12040
Efimov, G. V. 9440
Enatsu, H.; et al. 9441
Englert, D. 4420
Eu, Byung Chan 12041
Exner, P. 14630
Fakirov, D. G. 9442,9443,14631
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Fateev, V. A.; et al. 14632
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Feynman, R. P. *9444
Finkler, P.; et al. 9438
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Goddard, P.; et al. 4423
Gorčakov, V. V.; et al. 12051
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Grossmann, A. 4424
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Grümm, Hans-Richard 6765
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Hermann, Robert 9451
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Horsley, R.; et al. 4423
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Hughes, J. W. B.; et al. 14634,14635
Isaacson, David (10778)
Ito, Hitoshi 6768
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Jaffe, Arthur; et al. 1981,1982
Jakimĭv, Ja. M. 4426
Jakimĭv, Ja. M.; et al. 4436
Jauch, J. M.; et al. 6769,6770
Jones, C. E.; et al. 9438
Jouvet, B. 6771
Jucys, A. P.; et al. *4427
Just, K.; et al. 14636
Kaekebeke, M.; et al. 14624
Kalašnikov, O. K.; et al. 9421
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Klein, Abel 14637
Kodama, Yuji; et al. 12036
Kouri, D. J.; et al. 9454
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Misheloff, M. N.; et al. 9438
Misra, B. N.; et al. 6770
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Rieckers, A. 6778
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Yao, Te Hai 6784
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(Zepeda, A.) *6785
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Physics, theoretical *6785
Quantum fields *6785
Statistical mechanics *6785

81.49 *Calculus of variations, optimal control*

Anderson, Dan 6786
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Cohen, Leon 6787
Giannoni, M. J.; et al. 2007
Hietarinta, Jarmo 14645
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Kocher, Carl A. 9467
Koonin, S. E.; et al. 14646
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Popov, V. S.; et al. 9469
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81.53 *Differential geometry*

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Barnes, K. J.; et al. 6789
Bertrand, J. 9470
Bloore, F. J. 9471
Bloore, F. J.; et al. (12006)
Bracci, L.; et al. 4438
Brandt, R. A. 12055
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Dighton, Kenza 9475
Dobrev, V. K.; et al. 9476a-b
Donkov, A. D.; et al. 9477,9478a-b,9479a-b,9480
Dowker, J. S. 12058
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Guertin, Ralph F. 9481,9482
Haavisto, J.; et al. 6792
Harnad, J. P.; et al. 6791
Horváth, Z.; et al. 9483
Hristova, E. H.; et al. 9476a-b
Hsu, J. P. 12059
Ikeda, Satoshi 2014,9484
Ill'in, Ju. 9485
Kadyševskiĭ, V. G.; et al. 9477,9478a-b,9479a-b,9480
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Leiter, Darryl J.; et al. 12056

81.53 *Continued*

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Lichnerowicz, André; et al. (13994)
Lotze, K.-H.; et al. 4439
Mateev, M. D.; et al. 9477,9478a-b,9479a-b,9480
Mir-Kasimov, R. M.; et al. 9477,9478a-b,9479a-b,9480
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Palev, Č. D. 9486
Palla, L.; et al. 9483
Panday, Ramesh Chandra (4544)
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Pettitt, R. B.; et al. 6791
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Roman, P.; et al. 2016,6792
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Segal, I. E. 4442
Shao, Chin Ch'ang 14647
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Stamenov, D. B.; et al. 9476a-b
Sternheimer, Daniel; et al. (13994)
Strocchi, F.; et al. 4438
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Treder, H.-J. (9589a-b),9488
Umezawa, M. 2020
Utiyama, Ryoyu 14648
Vollendorf, F. (4547)
Wojciechowski, Stefan 14649
Wu, Tai Tsun; et al. 14650
Yamazaki, Masatoshi 12060,12061
Yang, Chen Ning; et al. 14650

81.57 *Topology and geometry of manifolds*

Patani, A.; et al. 2021
Schlindwein, M.; et al. 2021
Shafi, Q.; et al. 2021
Whiston, George S. 9489

81.58 *Global analysis, analysis on manifolds*

Arens, Richard 9490
Faddeev, L. D. 12062
Gawędzki, K. (14016)
Komar, Arthur 14651
Magri, F. 14652
Perelomov, A. M. (1325)
Shah, K. Tahir 12063
Tarski, J. (4434)
von Westenholz, C. 9491
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 12062
Riddle of gravitation—on the occasion of the 60th birthday of Peter G. Bergmann 14651

81.60 *Probability*

Bezák, Viktor 9492
Blanc-Lapierre, André; et al. (11523)
(Carnal, H.) 9494
Caubet, Jean-Pierre 6793
Chandra, Naresh; et al. 12068
Chari, C. T. K. 2022
Cohen, Leon 12064
Constantinescu, F.; et al. (8880)
(Csiszar, I.) 9494
(Depeyrot, M.) 9494
DeWitt-Morette, Cecile 4443
(Feldman, J.) 9494
Hasler, Martin 4444
Kijowski, Jerzy 2023
Kripa, H. (1965a-b)
Krüger, J. G.; et al. 4445
Lee, L. L. 6794
Mamojka, Branislav 9493
Marchand, Jean-Paul 12065
Mayants, L. S. 2024,2025,12066
Mayants, L. S.; et al. 6795
Mehta, M. L. 12067
van der Merwe, A. J.; et al. 6795
Parthasarathy, K. R. 9494
Poffyn, A.; et al. 4445
Prakash, Hari; et al. 12068
Prugovečki, Eduard 2026
Schrader, Robert 14653a-b
Snygg, John 14654
Srinivas, M. D. 2027
Thalheimer, W.; et al. (8880)
Tortrat, Albert; et al. (11523)
Truman, Aubrey 6796
Vachaspati; et al. 12068
von Waldenfels, Wilhelm 9495
Wegmann, Rudolf (8816)
Yao, Te Hai 4446
Yourgrau, W.; et al. 6795
Zlatev, I. 2028
Les probabilités sur les structures algébriques 9494
Probability and information theory, II 9495

81.62 *Statistics*

Cartwright, Nancy 9496
Hristov, Hr. Ja.; et al. 9497
Markovski, B. L.; et al. 9497
Mitjugov, V. V. 12069
Nahm, W. 9498
Reichl, L. E. 2029,2030

81.65 *Numerical methods*

Adam, Gh.; et al. 9499
Chisholm, J. S. R.; et al. 9500
Genz, A. C.; et al. 9500
Hofmann, H. M.; et al. 9501
Hunter, G.; et al. 9502
Ixaru, L. Gr.; et al. 9499
Kuriyan, Mary; et al. 9502
Pusterla, M.; et al. 9500
Richert, J.; et al. 9501
Stern, M. S.; et al. 6797
Tepel, J. W.; et al. 9501
Warburton, A. E. A.; et al. 6797
Weidenmüller, H. A.; et al. 9501
Yellin, S. 2031

82—XX STATISTICAL PHYSICS, STRUCTURE OF MATTER

82.00 *General*

Case, K. M. 12070
Gol'cman, F. M. *4447
Treder, H.-J. (2118)

82.01 *History and biography*

(Buhvostov, A. P.) (*2402)
(Frenkel', Ja. I.) (*2402)
(Frenkel', V. Ja.) (*2402,*2403)
(Gandel'sman, E. M.) (*2402)
(Gandel'sman, I. L.) (*2403)
Ioffe, A. F. (*2402,*2403)
(Kontorova, T. A.) (*2403)
(Nikanorov, S. P.) (*2402)
(Regel', A. R.) (*2403)
(Sanfirov, Ju. Z.) (*2403)
(Šifrina, E. M.) (*2402)
(Stil'bans, L. S.) (*2403)
(Žurkov, S. N.) (*2402,*2403)
(Žuze, V. P.) (*2403)

82.02 *Logic and foundations*

Biel Gayé, J.; et al. 2032-2034
Marro Borau, J.; et al. 2033,2034
Navarro, L.; et al. 2032

82.05 *Combinatorial theory, graph theory*

Biggs, N. L. 4448
Eggarter, T. P. 9504
Grewe, N.; et al. 9503
Klein, W.; et al. 9503
Walasek, K. 2035

82.15 *Linear and multilinear algebra matrix theory*

Larsen, E. W.; et al. 2036
Zweifel, P. F.; et al. 2036

82.20 *Group theory and generalizations*

Appalanarasimham, V.; et al. 12072
Balescu, R.; et al. 12071
Berenson, Rhoda; et al. (12882)
Birman, Joseph L.; et al. (12882)
Brenig, L.; et al. 12071
Car, R.; et al. (2778a-b)
Ciucci, G.; et al. (2778a-b)
Itzkan, Irving; et al. (12882)
Krishnamurty, T. S. G.; et al. 12072
Quartapelle, L.; et al. (2778a-b)
Solecki, Andrzej 12073

82.22 *Topological groups and Lie theory*

Bacis, R.; et al. 6798
Dobrusin, R. L.; et al. 12074
Kac, A. V.; et al. 14655
Kontorovič, V. M.; et al. 14655
Massot, J. N.; et al. 6798
Shlosman, S. B.; et al. 12074

82.28 *Measure and integration*

Gurevič, B. M.; et al. 4449
Ruelle, David (5441)
Spohn, H. (10569)
Suhov, Ju. M.; et al. 4449

82.30 *Functions of a complex variable*

Ahn, S.; et al. 2038
Burniston, E. E. 2037
Carroll, C. E.; et al. 2038
Lebowitz, J. L.; et al. 9505
Newman, C. M.; et al. 14656
Oono, Yoshitsugu 6799
Runnels, L. K.; et al. 9505
Schulman, L. S.; et al. 14656
Slawny, J. 12075
Szu, H. H.; et al. 2038
Yang, C. C.; et al. 2038

82.31 *Potential theory*

Singh, S. R.; et al. 12076
Zerner, M. C.; et al. 12076

82.32 *Several complex variables*

Ito, Keiichi R. 2039
Messager, A.; et al. 4450
Sánchez, Julián 14657
Trotin, J. C.; et al. 4450

82.33 *Special functions*

Jorna, S.; et al. 4451
Zucker, I. J. 6800,9506,9507

82.34 *Ordinary differential equations*

Musgrave, M. J. P.; et al. (1777)
Pao, C. V. 6801
Poore, A. B. 9508
Robinson, Derek W. 2040
Tasi, J.; et al. (1777)
Toda, Morikazu; et al. 4452,4453
Wadati, Miki; et al. 4452,4453

82.35 *Partial differential equations*

Agarwal, G. S. 12077
Carrier, G. F.; et al. 6802,6803
Choquard, Ph. 9509
Cichocki, B.; et al. 9514
Corones, James 12078
da Costa, R. C. T.; et al. 6804
Eimerl, David 9510
Feinberg, Martin 2042
Fendell, F. E.; et al. 6802,6803
Gatignol, Renée *4454
Gel'cinskiĭ, B. Ja. (4326)
Gerlich, G. 9511
Goldman, Martin V.; et al. 14658
Gurevič, B. M.; et al. 6805
Heindler, M. 4455
Horn, F. 2041
Itō, Akira; et al. 12080
Kidachi, Hideyuki; et al. 12080
Konno, Kimiaki; et al. 6806
Lehnigk, Siegfried H. 9512
Lobo, R.; et al. 6804
Marble, F. E.; et al. 6802
Matsumoto, H.; et al. 2043
Maugin, G. A. 6807
Morita, Tohru 9513
Muriel, A. 6808
Piasecki, J.; et al. 9514
Porkolab, Miklos; et al. 14658
Reichl, L. E. 12079
Ruderman, M. S. 14659
Sanuki, Heiji; et al. 6806
Smelov, V. V. *4456
Stewart, H. Bruce 2044
Suhov, Ju. M.; et al. 6805
Takahashi, Yoichiro 4457
Tomita, Hiroyuki; et al. 12080
Umezawa, H.; et al. 2043
Veresov, V. G. (6985)
Asymptotic methods and stochastic models in wave propagation problems (4326)

82.39 *Finite differences and functional equations*

Ronca, G. 4458

82.40 *Sequences, series, summability*

Robertson, M. M.; et al. 9515
Zucker, I. J.; et al. 9515

82.42 *Fourier analysis*

Hautot, André 9516
Moraal, H. 4459

82.44 *Integral transforms, operational calculus*

Ulmer, W. 4460

82.45 *Integral equations*

Abdrahmanov, M. A. (9368)
Altenberger, A. R. 9517
Bass, F. G.; et al. *4461
Biel, J. 4462
Boffi, V. C.; et al. 14660
Boffi, Vinicio 4463
Bowden, R. L.; et al. 4464
van Calck, J.; et al. 9518
Cannon, John R.; et al. 14661
De Matteis, Artenio 14662
Denisov, Ju. M.; et al. 14663
Der, R.; et al. 14664
Feigenbaum, Mitchell J. 4465
Fernández Alvarez-Estrada, Ramón 12081
Fukuyama, Yutaka 9519
Gaffuri, Giovanni; et al. 14701
Grečannyĭ, O. A. 14665
Gurevič, Ju. G.; et al. *4461
Haberlandt, R.; et al. 14664
Haken, H. 2045
Inönü, E. 9520
van Kampen, N. G. 9521
Kinčl, J.; et al. 2046
Koršunov, V. A.; et al. 14666
Kritz, A. H.; et al. 6809
Kuznecov, Ju. A.; et al. 14667
Kyncl, Jan; et al. 14668
Larini, Michel; et al. 9522
Larsen, E. W.; et al. (2036),4466
Marek, I.; et al. 2046,14668
Melzak, Z. A. 6810
Menikoff, R.; et al. 4464
Molinari, V. G.; et al. 14660
Morozov, S. F.; et al. 14667
Nelson, Paul; et al. 14661
Ovčarenko, V. P.; et al. 14663
Petit, Jean-Pierre; et al. 9522
Pinsky, Mark A. (10900)
Prelati, G. P.; et al. 4467
Premuda, F. 14669
Ramanathan, G. V.; et al. 6809
Rigolot-Turbat, Christiane 12082
Ronen, Yigal 9523
Sahni, D. C. 9524
Sandri, G.; et al. 6809
Severne, G.; et al. 9518
Siewert, C. E. 9525
Silvennoinen, Pekka 14670
de Socio, Luciano M.; et al. 14701
Spiga, G.; et al. 4467
Tanana, V. P.; et al. 14666
Tjurin, G. A. 14671
Williams, M. M. R. 2047
Yahata, Hideo 4468
Zweifel, P. F.; et al. (2036),4464,4466
Transport phenomena 4462

82.46 *Functional analysis*

Chen, Etang 4469
Dell'Antonio, G. F. 12083
Dubin, D. A. 2048
Friederich, A.; et al. 9426
Gerling, W.; et al. 9426
Girard, André 6811
Guiraud, Jean-Pierre 12084
Kishimoto, A. 2049
Leyland, P. 2050
Menikoff, Ralph; et al. 2051,2052
Moore, Steven M. 2053
Moya, R. P. 2054
Naudts, J.; et al. 4470
Raveché, Harold J.; et al. 6812
Ruelle, David 9526
Sharp, David H.; et al. 2051,2052
Stuart, C. A.; et al. 6812
Verbeure, A.; et al. 4470
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Mathematical aspects of statistical mechanics (Proc. Sympos. Appl. Math., New York, 1971) 9526

82.47 *Operator theory*

(Alexanian, M.) (*6785)
Altenberger, A. R. 9527
Aronson, Raphael 14672
Balescu, R.; et al. 2058,9528
Barrett, Wayne W.; et al. 12085
Bessis, D.; et al. 4471
Bogoljubov, N. N., Jr.; et al. 6813
Bongaarts, P. J. M.; et al. 14673
Borysiewicz, M.; et al. 14674
Brenig, L.; et al. 9528
Brydges, David; et al. 2056
Campbell, C. E. 14675
Capel, H. W.; et al. 4474,12089
Drange, Hans Birger 12087
Duneau, M.; et al. 12088
Dunlop, François 2057
Emch, Gérard G.; et al. 9534
Federbush, Paul; et al. 2056
Fernández Alvarez-Estrada, Ramón; et al. 2055
Fried, H. M. 9529
Fröhlich, J.; et al. 9530
George, C.; et al. 14676
Georgiev, G. I. 9531
Gibberd, R. W.; et al. 14676
Greenberg, William; et al. 6814
Grmela, Miroslav 14677
Heilmann, O. J.; et al. 6815
Hirshman, S. P.; et al. 4472
Ilieva, K. D.; et al. 9532a-b
Kac, M.; et al. 12085
Kebukawa, Takeji; et al. 9537
Kjaer, K. H.; et al. 6815
Klaus, M. 9533,14678
Kunz, H. 14679
Martin, Philippe; et al. 9534
Mika, J.; et al. 14674
Misguich, J. H.; et al. 2058
Monchick, L. 9535
Moraal, H. 4473
Moussa, P.; et al. 4471
Onuki, Akira 9536
den Ouden, L. W. J.; et al. 4474,12089
Paiva-Veretennicoff, I.; et al. 9528
Perk, J. H. H.; et al. 4474,12089
Plečko, V. N.; et al. 6813
Powers, Robert T. 14680
Roepstorff, G. 12090
Sancaktar, Selim; et al. 6814
Schwartz, M. 12091
Shibata, Fumiaki; et al. 2059
Sigmar, D. J.; et al. 4472
Simon, B.; et al. 9530
Siskens, Th. J.; et al. 14673
Solana, J.; et al. 2055
Spencer, T.; et al. 9530
Squillard, B.; et al. 12088
Stepanov, A. V.; et al. 9532a-b
Sunakawa, Sigenobu; et al. 9537
Takahashi, Yoshinori; et al. 2059
Tarasov, V. G. 4475
Tindemans, P. A. J.; et al. 4474
Truong, L. 2060
Vardalas, J. 2061
Villani, M.; et al. 4471
Wreszinski, Walter F. 4476
Yamasaki, Shuichiro; et al. 9537
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Physics, theoretical (*6785)
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Statistical mechanics (*6785)

82.49 *Calculus of variations, optimal control*

Critchley, R. H.; et al. 4477
Fannes, M.; et al. 6816
Hammad, Pierre 9538
Hasegawa, Hiroshi 4478
Kuznecov, Ju. A.; et al. 4479
Morozov, S. F.; et al. 4479
Solomon, A. I.; et al. 4477
Verbeure, A.; et al. 6816

82.50 *Geometry*

Gorini, Vittorio; et al. 6817
Sudarshan, E. C. G.; et al. 6817

82.53 *Differential geometry*

Kranyš, Miroslav 9539
Krause, J. 6818,6819
Perrin, Henri 12092
Sampaio, Rubens 6820

82.58 *Global analysis, analysis on manifolds*

Capocaccia, D. (3755)
Mistura, L. 6821
Revzen, M.; et al. 6822
Schulman, L. S.; et al. 6822

82.60 *Probability*

Abraham, D. B.; et al. 9540
Bazarov, I. P. 9541
Brâncuş, Dan E. N. 6823
Carmichael, H. J.; et al. 2062
Chakrabarti, C. G. 14681
Chen, Yi Der 4480
Chong, Tak Yuen 6824
Coniglio, Antonio; et al. 14682
Cristea, Gh. 14683
Dobbertin, R. 9542,9543
Dobrušin, R. L. 4481,9544
Etori, Kanji 2063
Forte, B.; et al. 12093
Fujisaka, Hirokazu 6825
Galkin, L. M. *12094
Gallavotti, G.; et al. 14684
Gercik, V. M. 6826
Gibberd, R. W.; et al. 4482
Ginibre, J. 9545
Grabert, H.; et al. 2064
Guiasu, Silviu; et al. *6828
Haĭrullin, R. N. 4483
Haĭtov, A.; et al. 4485
Hänggi, P.; et al. 12095
Hauge, E. H.; et al. 14685,(14686)
Hoffman, D. K.; et al. 4482
Holley, Richard (1422)
Hubert, D. 2065
van Kampen, N. G. 2066
Kitahara, K.; et al. 6829,14690
Klauder, J. R.; et al. (14560)
Kozlov, O. K. (3885)
Landman, Uzi; et al. 14687
Levich, E.; et al. 2067
Lieb, Elliott H.; et al. 14688
Malek-Mansour, M.; et al. 14690
Maravall Casesnoves, Darío (1423)
Martin-Löf, A.; et al. 14684,14685
Mathews, J.; et al. 6827
Matvĭĭčuk, K. S. 4484
Mazur, P. 2068
McKean, H. P. (11529)
Minlos, R. A.; et al. 4485
Montroll, Elliott W.; et al. 14687
Mori, Hazime; et al. 9547
Mürmann, Michael G. 2069
Nakazawa, Hiroshi 14689a
Nappi, Chiara Rosanna; et al. 14682
Narnhofer, H.; et al. (14560),14688
Nasr, Ali 2070,(3886)
Nicolet, A.-A.; et al. 6827
Nicolis, G.; et al. 14690
Ochs, W. 14691
Onicescu, Octav; et al. *6828
Patažinskiĭ, A. Z.; et al. *12096
Peruggi, Fulvio; et al. 14682
Pismen, L. M.; et al. 2067
Pokrovskiĭ, V. L.; et al. *12096
Portnov, J.; et al. 6829
Powers, Robert T. 6830
(Rajagopal, A. K.) 6831
Reed, P.; et al. 9540
Reichl, L. E. 14692a-c
Ruelle, D. 12097
Russo, Lucio; et al. 14682
Saito, Satoru 12098
Sastri, C. C. A.; et al. 12093
Seeberg, O. 9546
Sempi, Carlo (12371)
Shlesinger, Michael F.; et al. 14687
Smith, James R. 4486a-b
Speisman, Gerald 12099
(Sudarshan, E. C. G.) 6831
Suzuki, Masuo 14693
Thomas, H.; et al. 12095
Titulaer, U. M. 6831
Tokuyama, Michio; et al. 9547
Učaĭkin, V. V. 4487
Van Nypelseer, A.; et al. 14690
Velarde, M. G.; et al. (14686)
Vigfusson, J. O. 14694,14695
van Vliet, K. M. (4358)
Walls, D. F.; et al. 2062
Weidlich, W.; et al. 2064
Wiegel, F. W. 12100
Functional analysis and the theory of functions, No. 8 4483
Mathematical aspects of statistical mechanics (Proc. Sympos. Appl. Math., New York, 1971) 9545
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82.60 *Continued*

Proceedings of the International Conference on Physical Aspects of Noise in Solid State Devices, Fourth (Noordwijkerhout, 1975) 2066,(4358)
Transport phenomena 2068

82.62 *Statistics*

Bayer, W.; et al. 4488,4489
Brydges, David; et al. 6832
Bubnov, V. A. 4490
Federbush, Paul; et al. 6832
Foulis, D. J.; et al. 4491,4492
Gates, D. J. 14696
Georgii, Hans-Otto 14697
McCourt, F. R.; et al. 6834
Ochs, W.; et al. 4488,4489
Oxtoby, John C. 6833
Pickard, D. K. (11626)
Randall, C. H.; et al. 4491,4492
Tenti, G.; et al. 6834

82.65 *Numerical methods*

Bobylev, A. V.; et al. 4494
Čarahč'jan, A. A. 14698
Carter, L. L.; et al. *4495
Cashwell, E. D.; et al. *4495
Cercignani, C. 2071
Chaba, A. N.; et al. 4496
Chang, Sin Chung; et al. 6835
Čujanov, V. A.; et al. 4494
Dzgarkava, N. N.; et al. 6836
Gabrašvili, A. I.; et al. 6836
Gadžiev, A. D. 14699
Iordanišvili, E. A.; et al. 6836
Jonah, D. A. 4497
Kennebrock, W. 2072
Kuznecov, Ju. A.; et al. 4498
Landa, P. S. 4499
Lebedev, V. I.; et al. *4500
Marčuk, G. I.; et al. *4500
Monkhorst, Hendrik J.; et al. 6837
Nikolaĭšvili, Š. S.; et al. 6836
Onufrieva, F. P. 6838
Pack, James D.; et al. 6837
Pathria, R. K.; et al. 4496
Protasov, A. V.; et al. 4498
Shavitt, Isaiah 14700
Shultis, J. Kenneth; et al. 6835
(Šmyglevskiĭ, Ju. D.) *4493
Computer science and scientific computing (Proc. Third ICASE Conf., Williamsburg, Va., 1976) 14700
Gas dynamics *4493
Methoden und Verfahren der mathematischen Physik, Band 16 2072
Numerical methods of linear algebra 4498
Radiation gas dynamics, No. 2 *4493,14698

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Wickert, Johannes (*9953)
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Unified field theories 12104
Bulletin GRG, No. 23 12101
Bulletin GRG, No. 24 12102
Bulletin GRG, No. 25 12103
Bulletin GRG, No. 26 12104
Bulletin GRG, No. 27 12105
Directory: Scientists (general relativity and gravitation), corrections and addenda 12101

83.00 *General*

Atwater, H. A. *6845
Chatham, R. E. 14703
Grøn, Ø.; et al. 14702
Itenberg, I. Ja. 6846
Kard, P. 2073,*4501a-b
(Kontovt, V. I.) (*3597)
Kuchowicz, Bronisław 4502
Landau, Lev D.; et al. *4503
Lifšic, E. M.; et al. *4503
Lightman, Alan P.; et al. *6847
(Lohin, V.) (*3597)
Nicola, M.; et al. 14702
Press, William H.; et al. *6847
Price, Richard H.; et al. *6847
Sokolnikoff, I. S. (*3597)
Taylor, John G. *14704
Teukolsky, Saul A.; et al. *6847
Bibliography: General relativity and gravitation 6840-6844
Bulletin GRG, No. 28 6839
Bulletin GRG, No. 29 6840
Bulletin GRG, No. 30 6841
Bulletin GRG, No. 31 6842
Bulletin GRG, No. 32 6843
Bulletin GRG, No. 33 6844
Directory: Scientists (general relativity and gravitation) 6839
Gravitation (*2380)
Relativity (*2380)
Symposium on Relativity and Gravitation (Brno, 1975) (*2380)

83.01 *History and biography*

Schöpf, Hans-Georg (39)
(Treder, Hans-Jürgen) (39)

83.20 *Group theory and generalizations*

Vollendorf, F. 6848

83.22 *Topological groups and Lie theory*

Hahen, M. 9379
Hu, B. L. 12106
Kerner, Richard 9548
Sen, D. K. 9549
Sutton, B. R. 4504

83.35 *Partial differential equations*

Agarwal, L. D.; et al. 12119
Banerjee, A.; et al. 6849,9550
Banerji, S.; et al. 6849
Barnes, A. 6850
Boillat, Guy; et al. 12107
Booth, Dexter J. 12108
v. Borzeszkowski, H.-H. 2074
Bray, M. 12109
Chandrasekhar, S. 4505a-b
Collier, Rainer 6851
Davis, W. R.; et al. (6680)
De, U. K.; et al. 9550
Demiański, M. 4506
Dowker, J. S. (12058)
Eisenstaedt, J. 4507
Epihin, E. N.; et al. 2075
Esposito, F. P.; et al. 2076
Griffiths, J. B. 4508
Hájíček, P. 6852
Hoenselaers, C. 6853
Hogan, P. A.; et al. 4509
Isham, C. J. 14705
Johnson, Coates R. 2077a-c
Kafadar, C. B. 4510
Kapoor, K.; et al. 4517
King, A. R. 12110
Kochhar, R. K.; et al. 4515,4516
Koppel, A. 4511
Korkina, M. P. 2078
Krečet, V. G.; et al. 12111
Künzle, H. P. 9551
Kurşunoğlu, Behram 12112
Lal, Krishna Bihari; et al. 4512,9552
Lichnerowicz, André 12113,12114
Linet, B. 6854
McCrea, J. D.; et al. 4509
McLenaghan, Raymond G.; et al. 14706
Meier, W.; et al. 12116
Mickevič, N. V.; et al. 2075
Mociuţchi, Cleopatra 2513
Nakagawa, Y.; et al. 4514
Nayak, B. K.; et al. 12115
Neugebauer, G.; et al. 12116
Oliver, D. R., Jr.; et al. (6680)
Ó Murchadha, N. 12117
Pant, D. N.; et al. 6856
Patel, L. K. 9553
Pavlockiĭ, I. P. 9554
Pechlaner, Edgar 2079
Petry, Walter 2080
Ponomarev, V. N.; et al. 12111
Pradhan, Anirudh; et al. 4512
Ray, Dipankar 12118
Roy, S. R.; et al. 4517
Ruggeri, Tommaso; et al. 12107
Shanker, Jai; et al. 12119
Som, M. M.; et al. 2081
Srivastava, Vinai K.; et al. 9552
Stanjukovič, K. P. 6855
Stewart, J. M.; et al. 9555
Tariq, Nessim; et al. 14706
Teixeira, A. F. da F.; et al. 2081
Tiwari, R.; et al. 6856,12115
Treder, H.-J. 4518
Trehan, S. K.; et al. 4514-4516
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Walker, M.; et al. 9555
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83.41 *Approximations and expansions*

Frehland, Eckart 14707

83.46 *Functional analysis*

Avishai, Y.; et al. 12120
Ekstein, H.; et al. 12120
Lukierska, K. 4414

83.47 *Operator theory*

Kreisel, E. 4519
Schomblond, Christiane; et al. 6858
Spindel, Philippe; et al. 6858

83.49 *Calculus of variations, optimal control*

Dirac, P. A. M. 4520
Elston, F.; et al. 4521
Maugin, Gérard A. 12121
Safko, J. L.; et al. 4521

83.50 *Geometry*

Kerner, Edward H. 4522

83.52 *Convex sets and geometric inequalities*

Bašilova, V. I. (5980)
Collection of articles on differential geometry (5980)

83.53 *Differential geometry*

Adamowicz, W.; et al. 14708
Agnese, A. G.; et al. 2083
Aichelburg, P. C. 6859
Anderson, Ian M. 2084
Anderson, Ian M.; et al. 12122
Aragone, C.; et al. 9557
Arcidiacono, Giuseppe 4523
Audretsch, J. 4524,9558
Barnes, A. 14709
Beem, John K. 2085
Bell, P.; et al. 4525
Benenti, Sergio 12123
Berezdivin R. 2086,6860
Bljudov, E. V. 12124
Bonanos, Sotirios 14710
Borisova, L. B. 14711
Boulware, David G.; et al. 12125
Bovyn, M. P. 2087
Breuer, Reinhard A. *4526
Brill, Dieter R. 9559
Burghardt, R.; et al. 9590
Caldirola, Piero 6861
Calvini, P.; et al. 2083
Camenzind, M. 9560
Camenzind, M.; et al. 2088
Camenzind, M. A.; et al. 2088
Carmeli, M. 2089
Carmeli, M.; et al. 9561
Chela-Flores, J. 9562
Chevalier, Jean 9563
Chiang, Shêng 4527
Cho, Y. M.; et al. 14713
Ciubotariu, Corneliu D. (6678)
Clarke, C. J. S. 12126,12127
Collinson, C. D. 4528
Cordero, Patricio; et al. 12128
Costa de Beauregard, Olivier 9564
Criss, T.; et al. 12135
Crumeyrolle, A. 12129
Daniel, M.; et al. 12130
Dautcourt, G. 12131
De, U. K. 9565
D'Eath, Peter D. 4529
Demiański, M.; et al. 6873
Deser, S.; et al. 12125
Dietz, Werner (4231)
Doroškevič, A. G.; et al. 9574
Duncan, D. P.; et al. 2090
Dunn, K. A. 12132
Dutt, R. C.; et al. 4532
Earman, J. 9566
Economou, John E.; et al. 9567
Edmonds, James D., Jr.; et al. 9568-9570
Ehlers, Jürgen 4530,14720
Englert, F.; et al. 2091
Epihin, E. N. 12133
Ernst, Frederick J.; et al. 9567
Fedorov, F. I.; et al. 6862
de Felice, Fernando 4531
Ferrara, S.; et al. 14714
Finley, J. D., III; et al. 14716
Flato, M.; et al. 14717

83.53 *Continued*

Folomeškin, V. N. 9571,9572
Frangulov, S. A. 2092
Fu, K. Y. 2093
Fukui, Ichio; et al. 2013
Gatha, K. M.; et al. 4532
Ginzburg, V. L.; et al. 9573
Gobedžisvili, M. S. 6863
Grišaru, M. T.; et al. 14715
Griščuk, L. P.; et al. 9574
Gucunaev, C. I.; et al. 2094
Gunzig, E.; et al. 2091
Güven, R. 4533
Hall, Donald E. 6864
Hansen, R. O.; et al. 2095
Harris, R. A. 12134
Hehl, F. W. 4534,6865
Hehl, F. W.; et al. 2096,14718
Held, A. 14719a-b
von der Heyde, P. 2097
von der Heyde, P.; et al. 2096,14718
Hiida, K.; et al. 4543
Hogan, P. A. 9575,12135
Hojman, Sergio A.; et al. 4535
Horndeski, Gregory Walter 9576
Ionescu-Pallas, Nicholas 4536
Israel, Werner (11995)
Jang, Pong Soo; et al. 14713
Järnefelt, G. 12136
Jhangiani, V. 12137
Judin, V. M.; et al. 9574
Kasper, U. 14721
Katz, J. 6866,9577
Kaye, M.; et al. 9561
Kazačkov, V. D.; et al. 2094
Kerlick, G. D.; et al. 2096
Kimura, T.; et al. 4543
Kirillov, A. A.; et al. 6862
Korobenok, E. V.; et al. 4537
Krause, J. 14722
Krawczyk, Jerzy 14723
Kreisel, Eckhard; et al. 2115
Ktoridès, C. N.; et al. 12130
Kuchař, Karel; et al. 4535
Kuchowicz, B. 2098
Künzle, H. P. 9578
Kustaanheimo, Paul E. 2099
Kuz'menkov, L. S. 4538
Lapkovskiĭ, V. K.; et al. 4537
Leibowitz, Elhanan; et al. 2108
Letelier, P. S. 2100,2101
Liebscher, Dierck-Ekkehard 2102
Lindström, U. 6867
Lovelock, David 2103,9579
Lovelock, David; et al. 12122
Lukačević, I. 14724
Lukács, B. 12138
Mason, D. P. 9580
Massa, Enrico 4539
Matsumoto, Makoto 4540
Maugin, Gérard A. 2104
Meggs, William J. 14725
Menzel, Donald H. 9581
Mignani, R.; et al. 6868
Mishra, R. S. 14727
Mishra, R. S.; et al. 14730
Misner, Charles W.; et al. *6869
Misra, M. 12139
Modugno, Marco; et al. 12140
Moncrief, Vincent 4541
Morita, Katsusada; et al. 2013
Morosi, Carlo 6870a-b
Nagaraj, Muppinaiya 14728
Nanda, S.; et al. 9582
Nediţă, N. I. 12141
Newman, Ezra T.; et al. 2095
Nguyễn Hoàng Phương 2105
van Nieuwenhuizen, P. 6871
van Nieuwenhuizen, P.; et al. 14714,14715
Novello, M. 6872
Novello, M.; et al. 4542
Ohta, Tadayuki; et al. 4543
Okamura, H.; et al. 4543
Oktem, F. 12142
Panda, H. K.; et al. 9582
Panday, Ramesh Chandra 4544
Pandey, S. N. 2106,12143
Perjés, Zoltán 9583
Plebański, J. F. 14729
Plebański, J. F.; et al. 6873,14716
Pokhariyal, G. P.; et al. 14730
Poliščuk, R. F. 2107,4545,14731
Recami, E.; et al. 6868
Restuccia, A.; et al. 9557
Reynolds, R. 9584
Robinson, Ivor 12144
Rodičev, V. I. *14732
Romano, Antonio 12145
Roşca, Radu 6874
Rosen, Nathan; et al. 2108
Ross, D. K. 2109
Rotenberg, M. A. 6875
Sakoto, Moussa 2110
Salić, Nikolaus 14733
Schucking, E. L. 14734
Schutz, Bernard F., Jr. 12146
Segal, I. E. (4442)
Sharma, D. N.; et al. 2111
Shepley, L. C.; et al. 2090
Sigal, R. 12147
Sigal, Richard F. 6876
Simon, Jacques; et al. 14717
Singatullin, R. S. (11216)
Singh, K. P.; et al. 2111
Singh, T. 2112
Siri, R.; et al. 9557
Smalley, L. L. 2113
Soares, I. Damião; et al. 4542
Sommers, P. 6877
Staruszkiewicz, A. (11206)
Stefani, Gianna; et al. 12140
Stehney, Ann K. 9585
Strauss, M. 9586
Szekeres, P.; et al. 4525
Tabensky, R. 9587
Takeno, Hyōitirō 14735
Tariq, Nessim; et al. 14706
Tauber, Gerald E. 9588
Tchrakian, D. H. 2114
Teitelboim, Claudio; et al. 4535,12128
Teixeira, A. F. da F.; et al. 2081
Terleckiĭ, Ja. P.; et al. 2094
Thorne, Kip S.; et al. *6869
Tipler, Frank J. 6878
Trautman, A.; et al. 14708
Treder, H.-J. 9589a-b,12148
Treder, Hans-Jürgen; et al. 2115
Truffin, C.; et al. 2091
Ugarov, V. A.; et al. 9573
Urban, P.; et al. 9590
Vaidya, P. C. 9591
Vermaseren, J. A. M.; et al. 14715
Villarroel, Danilo 12149
Vollendorf, F. 4546,4547
Voorhees, Burton H. 9592
Wainwright, J. 9593
Walker, A. G. *4548
Weingarten, Don 14736
Wheeler, John Archibald; et al. *6869
Wiarda, G. G. 9594
Windey, P.; et al. 2091
Wódkiewicz, K. 4549,4550
Wong, S. K. 4551
Woolley, M. L. 12150
Yoneya, Tamiaki 12151
Ždanov, V. I. 9595
Zel'manov, A. L. 4552a-b
Zund, J. D.; et al. 12134
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 4530
Astrophysique et spectroscopie (Comm. Vingtième Colloq. Internat. Astrophysique, Liège, 1975) 9581
Geometry and topology, No. 1 2092
Methods of local and global differential geometry in general relativity (Proc. Regional Conf. on Relativity, Univ. Pittsburgh, Pittsburgh, Pa., 1970) 9559,9578,9584,9592,9598,12146
Riddle of gravitation—on the occasion of the 60th birthday of Peter G. Bergmann 14734

83.54 *General topology*

Cibulskis, John M. 12152

83.57 *Topology and geometry of manifolds*

Whiston, George S. (11347)

83.58 *Global analysis, analysis on manifolds*

Bancel, Daniel; et al. (11385)
Cantor, M.; et al. 4553
Choquet-Bruhat, Y. (11384)
Collins, C. B. 2116
Collins, P. A.; et al. 2117
Derdziński, Andrzej 12153
Ellis, G. F. R.; et al. *12154
Fischer, A.; et al. 4553,(13981)
Francaviglia, Mauro 6879
Friedrich, H. 4554
Hawking, S. W.; et al. *12154
Hopkinson, J. F. L.; et al. 2117
Humi, Mayer 14737
Kimura, Morishige (13995)
Lacaze, Jacques; et al. (11385)
Lee, C. W. 14738
Marsden, J.; et al. 4553,(13981)
Mishra, R. S. 14726
Ó Murchadha, N.; et al. 4553
Schmidt, Bernd; et al. 14739
Sommers, Paul; et al. 14739
Tucker, R. W.; et al. 2117
Walker, Martin; et al. 14739
Wünsch, Volkmar 12155,14740
York, J.; et al. 4553
Methods of local and global differential geometry in general relativity (Proc. Regional Conf. on Relativity, Univ. Pittsburgh, Pittsburgh, Pa., 1970) 14737

83.60 *Probability*

Dudley, R. M. (6292)
Papers arising from a Conference on Stochastic Differential Equations (Univ. Alberta, 1972) (6292)

85—XX ASTRONOMY AND ASTROPHYSICS

85.00 *General*

Treder, H. J. 2118

85.34 *Ordinary differential equations*

Barkin, Ju. V. (1748)
Correas, J. M. 4555
Hadjidemetriou, John D. (9203)
Marchal, Christian; et al. (4226)
Saari, Donald G.; et al. (4226)

85.35 *Partial differential equations*

Bertin, G.; et al. 4556
Chandrasekhar, S. 2119
Cogley, Allen C.; et al. 4557
Domanus, Henry M.; et al. 4557
Lukaš, V. N.; et al. 6880
Novikov, I. D.; et al. 6880
Radicati, L. A.; et al. 4556
Richardson, R. W. 2120
Starobinskiĭ, A. A.; et al. 6880

85.41 *Approximations and expansions*

Ikeuchi, Satoru; et al. 2121
Ivanov, V. V. 4558a-b
Nakamura, Takashi; et al. 2121

85.44 *Integral transforms, operational calculus*

Laury-Micoulaut, C. A. 6881
Talpaert, Yves 2122

85.45 *Integral equations*

Avrett, Eugene H. 2123
Cannon, C. J. 2124
Domenico, B. A.; et al. 4561
Finn, G. D. 6882
Fymat, A. L.; et al. 4559
Ivanov, V. V. (4349,4350),6883
Kalnajs, Agris J. 2125,2126
Kolesov, A. K. 4560
Langebartel, R. G. 2127
Larsen, Edward W. 2128
Matsumoto, Masamichi 12157
Nagirner, D. I.; et al. 2129
Nicoghossian, A. G.; et al. 4562
Perdang, J. 9596
Rybicki, George B. 14741
Seljakov, K. I.; et al. 2129
Sen, K. K.; et al. 2131,2132
Skumanich, A.; et al. 4561
Ueno, S. 2130
Vasudevan, R.; et al. 4559
Wilson, S. J.; et al. 2131,2132
Yengibarian, N. B.; et al. 4562

85.53 *Differential geometry*

Brumberg, V. A. *9597
Carmeli, M.; et al. 14712
Dwivedi, Pt. I. H.; et al. 9598
Kantowski, R.; et al. 9598
Kaye, M.; et al. 14712
Marks, Dennis W. 6884

85.60 *Probability*

Horwitz, G.; et al. 9599
Katz, J.; et al. 9599
Lerche, I. (4356)

85.62 *Statistics*

Schäfer, Lothar (1997)

85.65 *Numerical methods*

Avramčuk, V. V. *14742
Bottema, O. 12156
Deaven, Dennis G. 12158
Debehogne, H. 6885

85.65 *Continued*

Norita, Sadataka (14286)
Rumjanceva, L. I. 6886
Whitney, Cynthia 4563
Tables: Ambarcumjan functions *14742

86—XX GEOPHYSICS

86.01 *History and biography*

Bullen, K. E. (9928),12159
A spectrum of mathematics (Essays presented to H. G. Forder) (9928)

86.30 *Functions of a complex variable*

Ahn, S.; et al. (2038)
Carroll, C. E.; et al. (2038)
Geĭhman, L. M.; et al. 4564
Odekov, O. A.; et al. 4564
Szu, H. H.; et al. (2038)
Vasov, O. K.; et al. 4564
Yang, C. C.; et al. (2038)

86.31 *Potential theory*

Maslennikova, A. I.; et al. 4565
Strahov, V. N. 2133
Strahov, V. N.; et al. 4565

86.35 *Partial differential equations*

Lê-Minh-Triêt 4566
Leonov, A. I.; et al. (4312)
Lilley, F. E. M. 2134
Malvestuto, Vincenzo; et al. 9600
Miropol'skiĭ, Ju. Z.; et al. (4312)
Salusti, Ettore; et al. 9600
Zirilli, Francesco; et al. 9600
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 2134

86.41 *Approximations and expansions*

Denis, J.; et al. 6887
Denoyelle, J ; et al. 6887
Smeyers, P.; et al. 6887
Yanowitch, M. 9601
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) 9601

86.45 *Integral equations*

Denisov, Ju. M.; et al. (14663)
Ovcarenko, V. P.; et al. (14663)

86.50 *Geometry*

Banno, Shohei; et al. 6888
Yamasaki, Masao; et al. 6888

86.53 *Differential geometry*

Grafarend, E. 2135,2136
Mathematical geodesy, Part I 2135
Mathematical geodesy, Part II 2136

86.60 *Probability*

Furuhama, Yoji 6889
Lauritzen, Steffen L. 2137

86.62 *Statistics*

Dutton, John A. (4290)
Neyman, Jerzy 12160

86.65 *Numerical methods*

Baines, P. G. 9602
Chen, Y. M.; et al. (14356)
Gelasvili, M. S. 4567
Ghil, Michael 4568
Rummel, Reiner 9603
Surmont, J.; et al. (14356)
Questions on numerical mathematics and programming 4567

90—XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

90-01 *Elementary exposition (collegiate level)*

Dempster, M. A. H. *4569

90-02 *Advanced exposition (research surveys, etc.)*

Brujackiĭ, E. V.; et al. *4570
Cozzolino, John M.; et al. *6890
Gupta, Shiv K.; et al. *6890
Kutateladze, S. S.; et al. 12161
Rubinšteĭn, G. Š.; et al. 12161
Smirnov, L. P.; et al. *4570

90-06 *Collections of papers; proceedings of conferences*

(Künzi, Hans Paul) *6892,*6893
(Łoś, Jerzy) *9604
(Łoś, Maria W.) *9604
(Meerov, M. V.) *9605
(Mitjagin, B. S.) *6891
(Prékopa, A.) *2138
Abstracts of papers presented at the Annual Convention of the Operational Research Society of India, Seventh (Kanpur, 1974) 12162
Annual Convention of the Operational Research Society of India, Seventh (Kanpur, 1974) 12162
Colloquia Mathematica Societatis János Bolyai, Vol. 12 *2138
Computing equilibria: how and why (Proc. Internat. Conf., Comput. Centre, Polish Acad. Sci., Toruń, 1974) *9604
Economics *6891
Functional analysis *6891
Hungarian Conference on Operations Research, Sixth (Eger, 1974) *2138
International Conference on Operations Research, Second (Eger, 1974) *2138
Mathematical economics and functional analysis *6891
Methods of operations research, Band XVIII *6892
Methods of operations research, Band XIX *6893
Methods of operations research, Band XX *6894
Methods of operations research, Band XXII *6895
Multivariable control systems *9605
Oberwolfach-Tagung über Operations Research, Sechste (1973), Teil I *6892
Oberwolfach-Tagung über Operations Research, Sechste (1973), Teil II *6893
Operational research 12162
Operations research *2138
Operations Research Verfahren, Band XVIII *6892
Operations Research Verfahren, Band XIX *6893
Operations Research Verfahren, Band XX *6894
Operations Research Verfahren, Band XXII *6895
Optimization methods for multivariable control systems *9605
Progress in operations research, Vols. I, II *2138

90Axx Mathematical economics {For econometrics, see 62P20.}

(Intriligator, Michael D.) *6896
(Kendrick, David A.) *6896
Econometric Society Winter Meetings (Toronto, Ont., 1972) *6896
Frontiers of quantitative economics (Invited Papers, Econometric Soc. Winter Meetings, Toronto, Ont., 1972), Vol. II *6896
Quantitative economics *6896

90A05 *Decision theory* [*See also* 62Cxx.]

Affuso, Paul J.; et al. 9608
Arrow, Kenneth J. 9606
(Arrow, Kenneth J.) 9610
Batra, Raveendra N.; et al. 9607
Bergstresser, K.; et al. 14743
Berry, William L.; et al. 6897
Blau, Julian H. 4571
Bowman, V. J.; et al. 4572
Brams, Steven J.; et al. 9608
Bujanov, B. B.; et al. 2139
Campbell, Donald E. 9609
Charnes, A.; et al. 14743
Colantoni, C. S.; et al. 4572
Cole, Joseph D.; et al. 4573
Fandel, G.; et al. 4574
Fishburn, Peter C. (7001)
Grötll, Reinhardt 9610
Hakansson, Nils H.; et al. 2140
Hartley, Roger 9611
Inada, Ken-ichi 9612
Jennergren, Peter 2141
Karni, Edi; et al. 9613
Kronsjö, T. O. M. 2142
Levy, Haim 4575
Miller, Bruce L.; et al. 2140
Moskowitz, Herbert; et al. 6897
Murota, Takeshi 14744
Nachman, David C. 14745
Nitzan, Shmuel 4576
Ozernoĭ, V. M.; et al. 2139
Pattanaik, Prasanta K. 14746
Pattanaik, Prasanta K.; et al. 9607
Perrakis, Stylianos; et al. 2143
Radner, Roy 4577,4578
Roy, Bernard 9614
Rusconi, Marcella 4579
Sage, Andrew P.; et al. 4573
Sahin, Izzet; et al. 2143
Salles, Maurice 4580,6898
Schmeidler, David; et al. 9613
Simon, Herbert A. 6899
Simonovits, András 4581
Wilhelm, J.; et al. 4574
Yu, P. L.; et al. 14743
Zilcha, Itzhak 9615
Bibliography: Decision theory 9614
Collection:
Vulih, B. Z. 2142
Social choice 4572
Decision and organization (a volume in honor of Jacob Marschak) 4577,4578,6899,9606
Differential game issue 14743
Jahrbuch Überblicke Mathematik, 1975 9610

90A10 *Utility theory*

Arrow, Kenneth J. (9606)
Buehler, Robert J. (11593)
Cameron, Peter J. (*7269)
Cole, Joseph D.; et al. (4573)
Fishburn, Peter C. 6900
Kannai, Yakar 4582,6901
Koerffy, A.; et al. 9616
Levy, Haim (4575)
Meinguet, Jean; et al. 2144
Moessinger, P.; et al. 9616
Murota, Takeshi (14744)
Narens, Louis (6976)
Peleg, Bezalel 2145
Sage, Andrew P.; et al. (4573)
Sandberg, I. W. 4583
Szwarc, Włodzimierz; et al. 2144
Decision and organization (a volume in honor of Jacob Marschak) (9606)
Papers presented at the Colloquium on Mathematical Economics (Univ. California, Berkeley, Calif., 1974) 2145

90A15 *Economic models*

Arrow, Kenneth J.; et al. 6902
Asmanov, S. A. 9617
Athans, Michael; et al. 14747
Aumann, R. J.; et al. 9621b
Bartosiewicz, Stanisława; et al. 12163
Bastian, Michael *6903
(Beer, Stafford) (*4732)
Bejan, H. C.; et al. (2185)
Bergmann, Joachim; et al. 14748
Bergmann, Ludmilla; et al. 14748
Bergstrom, Theodore C. 12164
Bhagwati, Jagdish; et al. 9631
Billera, Louis J. 12165
Billera, Louis J.; et al. (4691)

90A15 *Continued*

Bixby, Robert E.; et al. (4691)
Boglaev, I. P.; et al. (4617)
Brown, Donald J. 4585
Campbell, Donald E. (4692)
Candela, Guido 14749
Case, J. (4686)
Caspi, Yaffa Machnes 9618
Čeremnyh, Ju. N. 2146
Champsaur, Paul; et al. 6904
Chichilnisky, G.; et al. 12166
Cichocki, K. 12167
Clark, Peter K. (4022a)
(Clark, Peter K.) (4022b)
Clemhout, S.; et al. (12236)
Cornet, Bernard; et al. 4586
Dar, Tamar; et al. 12168
Day, Richard H.; et al. 14752
Debreu, Gerard; et al. 6905
Dierker, Egbert 14750
Dierker, Hildegard 2147
Dinev, Mihail 12169
Djukalov, A. N. 12170a-b
Egorov, V. A.; et al. 9622
Evstigneev, I. V. 12171
(Fischer, Joachim) *2157
Föllmer, Hans 9619
Fujimoto, T.; et al. 4592
Fujimoto, Takao 9620
Gale, David 9621a
(Gale, David) 9621b
Garcia, C. B. (6113)
Gehrig, Wilhelm (*9645)
Gelovani, V. A.; et al. 9622
Goldman, Steven M. 4587
Graham, Daniel A.; et al. 9623
(Hanika, F. de P.) (*4732)
Hanson, Donald A.; et al. 9624
Hart, Oliver D. 9625
Hart, Sergiu; et al. (10540)
Hartog, Joop 14751
Hasenkamp, Georg *2148
Hauptmann, Harry 9626
Helpman, Elhanan 12172
Henry, Claude 2149
Hibuhin, V. P. 12173
Hudaĭkuliev, O. 4588
Hurwicz, Leonid 12174
Jastremskiĭ, A. I. 9627
Jennergren, L. Peter; et al. 9623
Kalman, P. J.; et al. 12166
Kantorovič, L. V.; et al. 6906
Kelly, Jerry Stwart 2150
Kemp, Murray C.; et al. 12175
Kendrick, David; et al. 14747
Kennedy, Peter E.; et al. 14752
Khan, M. Ali 2151
Kohlberg, Elon; et al. (10540)
Kornai, János *12176
Krass, I. A. 14753
Kurz, Mordecai 2152
Kurz, Mordecai; et al. 6902
Lasry, Jean-Michel; et al. 4586
Lee, Kwang Yun; et al. 14754
Leitmann, G.; et al. (12236)
Lesourne, Jacques 4589
Lippman, Steven A.; et al. 9628
Long, Ngo Van 9629
Majumdar, Mukul; et al. 9630
Makarov, V. L.; et al. 6906
Mandelbrot, Benoit B. (4022b)
Mas-Colell, Andreu (4694)
McCall, John J.; et al. 9628
McFadden, Daniel; et al. 9630
Mickle, Marlin H.; et al. 6907,12177
Mierlea, V.; et al. (2185)
Miller, Bruce L. 4590
Mirman, Leonard J.; et al. 2153
Mitra, Tapan; et al. 9630
Mitrofanov, V. B.; et al. 9622
Moore, James C. 4591
Morishima, M.; et al. 4592
Myoken, Hajime 12178
Nickell, Stephen 4593
Nitzan, Shmuel (4576)
Okuno, Masahiro 4594
Park, Jong Goo; et al. 14754
Pau, L. F. (2235)
Peleg, B.; et al. 9621b
Perrakis, Stylianos 14755
Peterson, David W.; et al. 9623
Petith, Howard C. 4595
Piontkovskiĭ, A. A.; et al. 9622
Pop, G.; et al. (2185)
von Rabenau, Burkhard; et al. 9624
Rand, David 2154
Razin, Assaf; et al. 12168
Razumihin, B. S. 4596-4599
Roberts, Donald John; et al. 6904
Rosenthal, Robert W.; et al. 6904
Samuelson, Paul A. 12179
Sandberg, I. W. 4600
Sattinger, Michael 2155
Savel'ev, B. V.; et al. (4617)
Scarf, Herbert; et al. 4601,6905
Shafer, Wayne J. 12180
Shapley, Lloyd; et al. 4601
Simonovits, András 12181
Slutsky, Steven 4602
Smale, S. 14756-14760
Smoluk, Antoni; et al. 12163
Soyster, A. L. 2156
Srinivasan, T. N.; et al. 9631
Starr, Ross M. 6908
Suzuki, Hideo; et al. 12175
Tarr, David G. 4603
(Trappl, Robert) (*4732)
Treadway, Arthur B. 9632
Trygar, Tobias A.; et al. 12177
Uebe, Götz *2157
Vogt, William G.; et al. 6907,12177
Wan, H. Y., Jr.; et al. (12236)
Weintraub, E. Roy; et al. 9623
Yahav, Joseph A.; et al. 12168
Zeeman, E. C. 6909
Žijanov, V. I. 6910
Zilcha, Itzhak; et al. 2153
Cognition and learning (*4732)
Cybernetics (4732)
Decision and organization (a volume in honor of Jacob Marschak) 6905,12174
Differential games: a collection of articles (4686)
Economics *4584
European Meeting on Cybernetics and Systems Research, Second (Vienna, 1974) (*4732)
Hamiltonian dynamics in economics *4584
Mathematical programs for activity analysis (Rep. Belgo-Israeli Colloq. Operations Res., Pope Hadrian VI College, Univ. Louvain, Louvain, 1972) 12168
Oberwolfach-Tagung über Operations Research, Siebente (1974) 9626
Organization and management (*4732)
Papers presented at the Colloquium on Mathematical Economics (Univ. California, Berkeley, Calif., 1974) 2147,14750
Proceedings of the IFAC World Congress, Fifth (Paris, 1972), Part 3 6906
Progress in cybernetics and systems research (Second European Meeting, Vienna, 1974), Vol. II (*4732)
Socio-economic systems (*4732)
Systems education (*4732)
Systems research (*4732)
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) 2149

90A20 *Economic time series analysis* [*See also* 62M10.]

Bowman, H. Woods; et al. (12204)
Chow, Gregory C. 9633
Chow, Gregory C.; et al. (14275)
Heiler, Siegfried (*6421)
Hsiao, Cheng (9031)
Laporte, Anne Marie; et al. (12204)
Lin, An Loh; et al. (14275)
Bibliography: Identification and estimation in econometric systems 9633
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) (12204)
System identification and time-series analysis 9633

90A99 *None of the above, but in this section*

Clark, Colin W. (*4728)
(Gómez M., Guillermo L.) 9635
Guesnerie, Roger 2158
Jansen, R.; et al. (14301)
Louter, A. S.; et al. (14301)
Milo, Władysław; et al. 12182
Radner, Roy 9634
Satterthwaite, Mark Allen 2159
Shephard, Ronald W. *2160
Somermeyer, W. H.; et al. (14301)
Sztaudynger, Jacek; et al. 12182
Tintner, Gerhard 9635
Varian, Hal R. 14761
Welfe, Władysław; et al. 12182
Wesoły, Zygmunt; et al. 12182
Decision and organization (a volume in honor of Jacob Marschak) 9634

90Bxx Operations research and management science

Bhandiwad, R. A.; et al. (8929)
(Coffman, Edward G., Jr.) (*4159)
(Gelenbe, Erol) (*4159)
(Joffe, Ruth) *2161,*2162
(Künzi, Hans Paul) *4604
(Orgler, Yair E.) 2161, 2162
(Shlifer, Eliezer) 2161, 2162
Williams, A. C.; et al. (8929)
Information systems (*4159)
International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973) *2161,*2162
Management sciences *2161,*2162
Methods in operations research, Vol. XXI *4604
Modèles, mesures, simulation de systèmes informatiques (*4159)
Oberwolfach-Tagung über Operations Research, Siebente (1974) *4604
Operations Research Verfahren, Band XXI *4604
Proceedings of the International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973, Vol. I *2161
Proceedings of the International Meeting of the Institute of Management Sciences, XXth (Tel Aviv, 1973, Vol. II *2162
Simulation de systèmes informatiques (*4159)
Systèmes informatiques (*4159)

90B05 *Logistics, inventory, storage*

Ben-Tal, Aharon; et al. (12203)
Bubnicki, Zdzisław 6911
Das, Chandrasekhar 6912
Drew, Stephen A. W. 12183
Elton, Edwin J.; et al. 4605,6913
Fong, C. O.; et al. 4606
Garfinkel, R. S.; et al. 2163
Gruber, Martin J.; et al. 4605,6913
Hansen, Pierre; et al. 12184
Hilliard, Jimmy E. 6914
Hochman, Eithan; et al. (12203)
Jennergren, Peter (2141)
Kartašov, G. D. 12185
Kaufman, Leon; et al. 12184
Kleitman, Daniel J.; et al. (11176)
Kočetkov, E. S.; et al. 4611
Krieger, Michael M.; et al. (11176)
Lin, Chihchih C. 4607
Markowski, Jakub 6915
Murphy, Richard A. 14762
Nahmias, Steven; et al. 2164
Naidin, V. N.; et al. 6916
Neebe, A. W.; et al. 2163
Page, E.; et al. 6917
Paul, E. J.; et al. 6917
Pierskalla, William P.; et al. 2164
Poljak, D. G.; et al. 6916
Rao, M. R.; et al. 2163
Rosenlund, Stig I. (14158)
Rubal'skiĭ, G. B. 4608
Schäl, Manfred 4609
Srinivasan, V.; et al. 4606
Trubin, V. A. 12186
Umebayashi, Mitsutoshi 4610
Višnevskiĭ, V. M.; et al. 4611
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) (11176)
Mathematical programs for activity analysis (Rep. Belgo-Israeli Colloq. Operations Res., Pope Hadrian VI College, Univ. Louvian, Louvain, 1972) 12184

90B10 *Flows in networks, deterministic*

Agrawal, S. C.; et al. 6919
Bagchi, A.; et al. (6558)
Bakó, A. 2165
Bazaraa, Mokhtar S. 9636
Boari, M.; et al. (7116)
Braess, D. (4678)
Daniel, Lesley M. 2166
D'Ans, G. C.; et al. 4612
Fedorov, V. P. 12187
Gazis, D. C.; et al. 4612
Glover, Fred; et al. (6502)
Golden, B. L. (2217)
Hall, M. A. (4680)
Hwang, F. K. 2167
Kas, Péter 9637
Klingman, D.; et al. (6502)
Kyan, Seiki; et al. 6918
Levin, M. I. 2168
Minoux, M. 9638
Natali, A.; et al. (7116)
Onaga, Kenji; et al. 6918
Papadimitriou, Christos H. 4613
Paraskevopoulos, P. N. 7019
Rardin, R. L.; et al. 2169
Russell, A. H. 14763
Savage, S. L.; et al. (6558)
Sharma, J. K.; et al. 6919
Siperstein, B. I. 6920
Stanford, Robert E. (4684)
Unger, V. E.; et al. 2169
Weiner, P.; et al. (6558)
Weintraub, A. 9639
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 2166
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (6558)

90B15 *Flows in networks, probabilistic*

Evans, J. R. 6921
Gudehus, T. 9640
Kelly, F. P. (3877)

90B20 *Highway traffic*

Belleni Morante, Aldo 6922
Inouye, Hiroshi 4614
Morse, P. M. (6331)
Studi di probabilità, statistica e ricerca operativa in onore di Giuseppe Pomilj (6331)

90B25 *Reliability and maintenance* [*See also* 60K20,62N05.]

Albright, S. C.; et al. 2171
Balagurusamy, E.; et al. 12189
(Barlow, Richard E.) (*11709)
Barzilovič, E. Ju.; et al. 6923
Beichelt, Frank 9641
Belobragina, L. S.; et al. 9642
Berg, Menachem (6430)
(Birnbaum, Z. W.) (*11709)
Bougas, I.; et al. 14764
Cléroux, Robert; et al. (4065)
Derman, Cyrus; et al. 2171
Eliseev, V. K.; et al. 9642
Fukuta, Jiro; et al. 2170
(Fussell, Jerry B.) (*11709)
Gindev, E. 12188
Hyun, Kwang Nam (4682)
Ivnickiĭ, V. A.; et al. (8919)
Kander, Zvi; et al. (4009)
Kasumov, A. B.; et al. (8919)
Kawai, Hajime; et al. 6924
Khalil, Z.; et al. 14764
Kodama, Masanori 4615
Kodama, Masanori; et al. 2170
Konev, V. V. 9643
Loginov, A. N.; et al. 6923
Luss, Hanan; et al. (4009)
Mastran, David V. (1518)
McConalogue, Denis J.; et al. (4065)
Mine, Hisashi; et al. 6924
Misra, K. B.; et al. 12189
Muhitdinova, N. M. (6433)
Nakagawa, Toshio 9644
Nakagawa, Toshio; et al. 4616
Osaki, Shunji; et al. 4616
Raĭkin, A. L. *12190
Scheaffer, Richard L. (14176)
(Singpurwalla, Nozer D.) (*11709)
Accuracy and reliability of cybernetic systems 9642
Bibliography: Reliability, Bulgarian 12188
Collection: Birnbaum, Z. W. (*11709)
Conference on Reliability and Fault Tree Analysis (Univ. California, Berkeley, Calif., 1974) (*11709)
Fault tree analysis (*11709)
Reliability and fault tree analysis (Conf., Univ. California, Berkeley, Calif., 1974) (*11709)
System reliability (*11709)

90B30 *Production theory*

Baĭramov, A. M.; et al. (14369)
Boglaev, I. P.; et al. 4617
Bol'šakov, V. A.; et al. 12192c
Gehrig, Wilhelm *9645
Hitomi, Katsundo 14765,14766
Krüsteva, Marija; et al. 12191
Litvak, M. L.; et al. (14369)
Meerov, M. V.; et al. (14369)
Nakagami, Junichi 6925
Narutaki, Ryonosuke; et al. 4618
Obretenov, Apostol; et al. 12191
Pekelman, Dov 9646
Sakawa, Masatoshi; et al. 4618
Savel'ev, B. V.; et al. 4617
Sawada, Kazuya; et al. 4618
Šenbrot, I. M. 4619
Šmelev, V. V.; et al. 12192c
Starr, Martin K.; et al. 6926
Tapiero, Charles S.; et al. 6926
Uzdemir, A. P. 12192a-b
Uzdemir, A. P.; et al. 12192c

90B35 *Scheduling theory*

Abol'nikov, L. M.; et al. (6316)
Andersen, Kim (11549)
Barnett, A. 4620
Bein, P. Lawrence 6927
Berezovskiĭ, B. A.; et al. 2172
Bernstein, Arthur 4621
Bestwick, Paul F.; et al. 4622
Błażewicz, Jacek; et al. 4623
Bruno, John; et al. 6928
Cellary, Wojciech; et al. 4623
Chow, We Min (8932)
Čobanov, S.; et al. 12194
Coffman, E. G., Jr.; et al. 6928
Feĭgin, L. I. 4624
Fox, Thomas F.; et al. 2179
Garey, M. R.; et al. 6929,6930
Gebhardt, D. (1534)
Gelders, L.; et al. 2173,2174
Glazebrook, K. D. 6931
Goldman, A. J. 2175
Grabowski, J. 14767
Gupta, Jatinder N. D. 2176
Gupta, Jatinder N. D.; et al. 9647
Habermann, A. N. (6599)
Hastings, N. A. J.; et al. 4622
Horn, W. A. 9648
Ibarra, Oscar H.; et al. 2177
Jaremčuk, O. P.; et al. 6933,6934
Jasnogorodskiĭ, R. M.; et al. (6316)
Johnson, D. S.; et al. 6929,6930
Jurkevič, O. M. 12193
Kabalevskiĭ, A. N.; et al. (11572)
Kadosch, M. 6932
Kim, Chul E.; et al. 2177
Kleindorfer, P. R.; et al. 2173,2174
Kolev, A.; et al. 12194
Lavenberg, S. S.; et al. 2178
Lewis, P. M.; et al. 12222
Li, Chong Uk 9649
Li, Hon F.; et al. 2179
Maykut, Albert R.; et al. 9647
Mensch, Gerhard 12195
Mova, V. V.; et al. 6933,6934
Nakagawa, Toshio; et al. 12196
O'Donovan, T. M. 6935
Osaki, Shunji; et al. 12196
Ramamoorthy, C. V.; et al. 2179
Rosenkrantz, D. J.; et al. 12222
Rowicki, A. 4625
Sahney, Vinod K. 4626
Salija, R. N. 14768
Schrage, Linus 4627
Sethi, Ravi; et al. 6928,6930
Shedler, G. S.; et al. 2178
Škurba, V. V. 12197
Słowiński, Roman; et al. 6936
Stearns, R. E.; et al. 12222
Takahashi, Yukio 2180
Travkin, S. I.; et al. 2172
Trémolières, Raymond 6937
Trusov, S. S. 6938
Volkovinskiĭ, M. I.; et al. (11572)
Węglarz, Jan; et al. 6936
Annual Symposium on Switching and Automata Theory, 15th (1974) 12222
Foundations of computer science (Lecture Notes, Advanced Course Univ. Amsterdam, Amsterdam, 1974) (6599)
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 6928
Mixed boundary value problems and questions of mathematical simulation 6933,6934
Papers on system performance evaluation (8932)

90B40 *Search theory*

Guelman, M. (9202)
Hall, Gaineford J., Jr. 6939
Morse, Philip M. 6940
Nakai, Teruhisa 9650

90B99 *None of the above, but in this section*

Faĭziev, N. G.; et al. 9651
Guerin, Gilles G. 9652
Nuritdinov, Š.; et al. 9651
Šerman, I. M.; et al. 9651

90Cxx Mathematical programming {**For dynamic programming, see 49Cxx; for papers emphasizing calculus of variations or involving abstract spaces, see 49Dxx.**}

(Balinski, M. L.) *14769-*14771
Danø, Sven *2181,*2182
Dantzig, George B. (12443)
(Dixon, L. C. W.) *9653
(Künzi, Hans Paul) (*4604)
Padberg, Manfred W. (2685)
(Tucker, Albert William) (12443),*14769
(Wolfe, Philip) *14771
Approaches to integer programming *14770
Biography: Tucker, Albert William (12443)
Conference on Optimization in Action (Univ. Bristol, Bristol, 1975) *9653
Convegno sulla Programmazione Matematica e sue Applicazioni (INDAM, Roma, 1974) *12198
Linear programming *14770
Mathematical programming *12198
Methods in operations research, Vol. XXI (*4604)
Nondifferentiable optimization *14771
Oberwolfach-Tagung über Operations Research, Siebente (1974) (*4604)
Operations Research Verfahren, Band XXI (*4604)
Optimization *14771
Optimization in action (Proc. Conf., Univ. Bristol, Bristol, 1975) *9653
Pivoting and extensions *14769
Proceedings of the Winter School on Mathematical Programming, First (Drogobych, 1968), No. 2 *14772
Programmazione matematica *12198
Programming *14772
Symposia Mathematica, Vol. XIX *12198
Winter School on Mathematical Programming and Related Questions, First (Drogobych, 1968) *14772

90C05 *Linear programming*

Averbuh, N. D.; et al. (1087)
(Balaş, E.) 9654
Bejan, H. C.; et al. 2185
Cline, R. E.; et al. 2183,14775
Craven, B. D.; et al. 4628
Emelicev, V. A.; et al. (1087)
Fedorenko, R. P. 4629
Flavell, R.; et al. 6941
Fong, C. O.; et al. (4606)
Fushimi, Tamio; et al. 4630
Gay, David M. *14773,14774
Glover, F.; et al. 12199
Greenblatt, Z.; et al. 2186
(Hammer, P. L.) 9654
Jakovleva, M. A. 4631
Klingman, D.; et al. 12199
Knjazeva, V. F. 2184
Koehler, Gary J.; et al. *4632
Kravcov, M. K.; et al. (1087)
Mierlea, V.; et al. 2185
Mond, B.; et al. 2186,4628
Murty, Katta G. *2187
Narihisa, Hiroyuki 9654
Ohse, Dietrich 6942
Pinski, K.; et al. (3987)
Pop, G.; et al. 2185
Pyle, L. D.; et al. 2183,14775
Rardin, Ronald L.; et al. 6943
Rosander, Robert R. 12200
Salkin, G. R.; et al. 6941
Saunders, M. A. 4633
Shocker, Allan D.; et al. (6436)
Simmons, Donald M. *6944
Soyster, A. L. 2188a-b
Sposito, V. A.; et al. (3987)
Srinivasan, V. 2189
Srinivasan, V.; et al. (4606,6436)
Thämelt, Wolfgang (339)
Underwood, Robert G. 6945
Unger, V. E.; et al. 6943
Väliaho, Hannu 4634
Watson, Layne T. 6946
Weber, Hans Hermann *9655
Whinston, Andrew B.; et al. *4632
Wright, Gordon P.; et al. *4632
Yamaguchi, Toshikazu; et al. 4630
Yu, P. L.; et al. 9656
Zeleny, M.; et al. 9656
Computational practice in mathematical programming 12200
Error, approximation, and accuracy (Proc. Sem., Austral. Nat. Univ., Canberra, 1972) 4633
Numerical methods of linear algebra 4629

90C10 *Integer programming*

Agrawal, S. C. 9657
Anzai, Yuichiro 4635
Aruin, L. I. 4636
Balas, Egon; et al. (2487,5020)
Bär, Gunter 2190
Blair, Charles 6947
Burkard, Rainer E. 12201
Burkov, V. N.; et al. 4637
Christofides, Nicos; et al. 6948
Davydov, È. G.; et al. 4638
Dorfman, G. Ja.; et al. 9663
Egiazarjan, È. V. 9658
Forgó, Ferenc *4639
Gallus, G. 4640
Garey, M. R.; et al. 9659
Garfinkel, R. S.; et al. (2163)
Geoffrion, Arthur M. 14776
Gimadi, È. H.; et al. 9660
Glebov, N. I.; et al. 9660
Graham, R. L.; et al. 9659
Granot, D.; et al. 14777
Granot, F.; et al. 14777
Guignard, Monique; et al. 2191
Hoey, Dan; et al. (14441)
Hu, T. C.; et al. 9661
Ibaraki, Toshihide (6551)

90C10 *Continued*

Ibaraki, Toshihide; et al. 4642
Iri, Masao; et al. 4641
Ishii, Hiroaki; et al. 4642
Ivančev, M. D.; et al. 4643
Janev, N. I.; et al. 4643
Knuts, Lars-Runar 9662
Komáromi, É. 12202
Korman, S.; et al. 6948
Lemke, C. E.; et al. 6949
Lenard, M. L.; et al. 9661
Loveckiĭ, S. E.; et al. 4637
Marsten, Roy E.; et al. 14778
Metze, Gernot; et al. (9882)
Mine, Hisashi; et al. 4642
Mitev, Ĭ. G.; et al. 4643
Morin, Thomas L.; et al. 14778
Neebe, A. W.; et al. (2163)
Orlova, G. I.; et al. 9663
Padberg, Manfred W.; et al. (2487,5020)
Perepelica, V. A.; et al. 9660
Piehler, Joachim 2192,4644,4645
Rao, M. R.; et al. (2163)
Rozov, Ju. L.; et al. (12277)
Salkin, H. M.; et al. 6949
Schmidt, Douglas C.; et al. (9882)
Seeländer, Jörg 2193
Shamos, Michael Ian; et al. (14441)
Sigal, I. H.; et al. 4638
Spielberg, K.; et al. 6949
Spielberg, Kurt; et al. 2191
Stojan, Ju. G. (*13733)
Szwarc, Włodzimierz 4646
Taha, Hamdy A. *4647
Tomizawa, Nobuaki; et al. 4641
Ulickiĭ, M. B.; et al. (12277)
Ullman, J. D.; et al. 9659
Volokitin, S. S. 4648
Williams, H. P. 9664
Wolsey, Laurence A. 9665
Yağiz, Ömer 4649
Yormark, Jonathan S. 2194
Young, R. D. 4650
All-Union Conference on Problems of Theoretical Cybernetics, Third (Novosibirsk, 1974) 9660
Annual Symposium on Foundations of Computer Science, 16th (Berkeley, Calif., 1975) (14441)
Combinatorial algorithms (Courant Comput. Sci. Sympos., No. 9, 1972) 9659
Combinatorial programming: methods and applications (Proc. NATO Advanced Study Inst., Versailles, 1974) (2487)
Nonlinear programming, 2 2191
Numerische Methoden bei graphentheoretischen und kombinatorischen Problemen (Tagung, Math. Forschungsinst. Oberwolfach, Oberwolfach, 1974) 12201
Proceedings of the Winter School on Mathematical Programming and Related Questions, Fourth (Drogobych, 1971), No. 1 4636

90C15 *Stochastic programming*

Abe, Tsutomu; et al. 2196
Bector, C. R.; et al. 9666
Ben-Tal, A.; et al. (1338),12203
Bereanu, Bernard 14779
Bowman, H. Woods; et al. 12204
Callahan, J. R.; et al. 9666
Coĭ, É. V.; et al. 4651
Ežov, I. I.; et al. (3853)
Fisher, Lloyd; et al. 4653
Fukushima, Masao; et al. 6951
Hoang Šum; et al. (3853)
Hochman, E.; et al. (1338),12203
Jastremskiĭ, A. I. 2195
Judin, D. B. 6950
Judin, D. B.; et al. 4651
Laporte, Anne Marie; et al. 12204
Mine, Hisashi; et al. 6951
Murotsu, Yoshisada; et al. 2196
Ohba, Fuminori; et al. 2196
Ohno, Katsuhisa; et al. 6951
Olsen, Paul 2197a-c
Rockafellar, R. T.; et al. 4652
Rotar', V. I. (6275)
Sysoev, L. P. 2198
Tamm, Ebu 2199
(Weber, Hans Hermann) *14780
Werner, Michael *14780
Wets, R. J.-B.; et al. 4652
Yakowitz, S. J.; et al. 4653
Proceedings of the Manitoba Conference on Numerical Mathematics, Third (Winnipeg, Man., 1973) 9666
Studies in Bayesian econometrics and statistics (in honor of Leonard J. Savage) 12204

90C20 *Quadratic programming*

Abaffy, József (1599)
Abrams, Robert A. 2200
Bastian, Michael (*6903)
Eckhardt, U. 9667
Eiho, Shigeru; et al. 4654
Hanson, D. L.; et al. (14219)
Kas, Péter (9637)
Koyame, Kenji; et al. 4654
Kushimoto, Shigeru 2201
Kuwahara, Michiyoshi; et al. 4654
Minato, Kotaro; et al. 4654
Pledger, Gordon; et al. (14219)
Reeves, Gary R. 12205
Schaible, S. 4655
Sharp, J. Franklin; et al. 6952
Šmyrev, V. I. 12206
Sposito, V. A. 2202
Tamir, Arie 9668
Uebe, Götz 4656
Welling, Priscilla; et al. 6952
Computational practice in mathematical programming 6952
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Bochum, 1974) 9667

90C25 *Convex programming*

Abrams, Robert A. (2200)
Aggarwal, S. P.; et al. 4657
Claesen, G. 4658
Dem'janov, V. F. 12207
Fujita, Masahisa 4659
Glassey, C. Roger 4660
Hoang Tuy (13519)
Hsia, Wei Shen 2203
Krabs, W. 6953
Misra, A. D. (4102)
Mititelu, Ştefan (5410)
Pierce, J. C.; et al. 9669
Rockafellar, R. T. 6954
Saxena, P. C.; et al. 4657
Schaible, S. 2205
Schechter, Murray (5969)
Schumitzky, A.; et al. 9669
Scott, Peter D. (13665)
Shachtman, Richard 2206
Weiss, Ernst-August, Jr. (1084)
Zowe, Jochem 4661
Numerische Methoden bei Optimierungsaufgaben (Oberwolfach, 1971) 6953

90C30 *Nonlinear programming*

Aĭda-zade, K. P.; et al. 4662,12216
Allwright, J. C. (11148)
Avriel, M.; et al. 2213
Bandler, J. W.; et al. (4096)
Bawa, V. S. 14781
Beale, E. M. L. (4093)
Beale, E. M. L.; et al. 6955
Bector, C. R. 4663
Bector, C. R.; et al. 2207
Bedel'baev, A. A.; et al. 14782
Benson, H. P.; et al. 14783
Berezovs'kiĭ, A. I.; et al. (*2259)
Betts, J. T. 9670
Bhatt, S. K.; et al. 2207
Blankenship, J. W.; et al. 9671
Blum, E.; et al. *6956
Bod, Péter 12208
Boĭčuk, L. M.; et al. 4671
Borwein, J. M. 14784
Buckley, A. G. (6499)
Charalambous, C.; et al. (4096)
Charalambous, Christakis 2208
Choi, Jae-Rong (13727)
Choit, Mark; et al. (6506)
Choo, E. U.; et al. 2213
Clarke, Frank H. 2209
Cruceanu, Stefan 14785
Davidon, W. C. (6500)
Dennis, J. E., Jr. (11758)
Dinkel, J. J.; et al. 4664
Dolecki, Szymon; et al. 12209
Donath, G.; et al. (2899)
Dubois, Jacques 4665
Dubov, Ja. A.; et al. 14782
Eaves, B. Curtis 6957
Ehlert, J. (3551a-b)
Elster, K. H.; et al. (2899)
Evans, John P.; et al. 12210
Falk, J. E.; et al. 9671
Fan, L. S.; et al. 12219a-b
Fan, L. T.; et al. 12219a-b
Fedorov V. V. *4666,*4667
Forrest, J. J. H.; et al. 6955
Garcia, C. B. (6113)
Gel'fand, M. A. 12211
Gibson, J. A.; et al. 12212
Gochet, Willy; et al. 4668
Goldfarb, Donald (11778)
Gould, F. J.; et al. 12210
Guigou, J. (9083)
Gurman, V. I.; et al. (*5931)
Guseva, O. V. 9672
Gustafson, Sven-Åke 6958
Haug, E. J., Jr.; et al. (4098a-b)
Hirai, Kazumasa; et al. 9673,14788
Hiriart-Urruty, Jean-Baptiste (13003)
Hoàng, Tuy (13686)
Horst, Reiner 12213
Hoy, W. S.; et al. 12212
Huard, Pierre 9674
Ivanov, V. V.; et al. (*2259)
Jain, O. P.; et al. 4672
Kleinmichel, Helmut; et al. (14367)
Kochenberger, G. A.; et al. 4664
Kojima, Masakazu 4669
Krotov, V. F.; et al. (*5931)
Kurcyusz, S. 12214
Kurcyusz, Stanislaw; et al. 12209
Lepeha, N. P. (*2259)
Maĭstrovskiĭ, G. D.; et al. (1293)
Mangasarian, O. L. 2210
McCarl, B.; et al. 4664
McCormick, Garth P. 2211
Mifflin, R. 4670
Mine, Hisashi; et al. 12215
Morin, T. L. 14783
Mossino, J. (11783)
Noda, Tatsuo; et al. 12215
Novruzbekov, I. G.; et al. 4662,12216
Oettli, Karl Werner; et al. *6956
Ohno, Katsuhisa; et al. 12215
Ol'hovskiĭ, Ju. G.; et al. (1293)
Oren, S. S. 12217,12218
Ovčinnikov, V. A.; et al. 4671
Pan, K. C.; et al. (4098a-b)
Parida, J.; et al. 2212
Polak, E. 14786
Powell, M. J. D. (14371)
Sadowski, Horst; et al. (14367)
Sahoo, B.; et al. 2212
Sayama, H.; et al. 12219a-b
Schaible, Siegfried 9675,9676
Schmitendorf, W. E.; et al. 6959
Schrack, Günther; et al. (6506)
Sinha, S. M.; et al. 4672
Smeers, Yves; et al. 4668
Šmul'jan, B. L.; et al. 14782
Spedicato, E. 14787
Stoer, Josef (1605)
Streeter, T. D.; et al. (4098a-b)
Ţigan, Ştefan 9677
Tkalić, E. F.; et al. 9678
Tkalić, V. S.; et al. 9678
Varga, József *4673
Walker, J. A.; et al. 6959
Yoshida, Kaname; et al. 9673,14788
Zadiraka, V. K.; et al. (*2259)
Zang, I.; et al. 2213
Zdorenko, L. D.; et al. (*2259)
Bibliography: Nichtlineare Programmierung *6956
Nonlinear programming *6956
Certain questions on simulation and systems control 9678
Computational practice in mathematical programming (4093)
Cybernetics and computer technology, No. 23 4671
Mathematical programming and its applications 4665
Nonlinear programming (Proc. Sympos., New York, 1975) (11758,14371)
Nonlinear programming, 2 9674
Numerical solution of systems of nonlinear algebraic equations 6958
Oberwolfach-Tagung über Operations Research, Siebente (1974) 14785
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 2207
Questions on numerical mathematics and computer science (Proc. Res. Sem., Inst. Low Temp. Phys. Engrg., Kharkov, 1975) (1293)
Studies in optimization 6957

90C35 *Network programming, programming in networks*

Christofides, Nicos 14789
Gierth, Gertraude; et al. 14790
Hultz, John; et al. 4674
Järvinen, Pertti 12220
Klingman, Darwin; et al. 4674
Osyczka, A. 12221
Russell, Robert; et al. 4674
Terno, Johannes; et al. 14790
Wagner, Helga; et al. 14790
Yamamoto, Masaaki 6960

90C40 *Markov programming*

Bali, Hari N.; et al. (14813)
Bather, John 14791,14792
Carson, Ewart R.; et al. (14813)
Ewers, Thomas; et al. (11545b)
Gavish, Bezalel; et al. 12223
Gheorghe, Adrian V.; et al. (14813)

90C40 *Continued*

Hübner, Gerhard 2214
Kadota, Yoshinobu (6285)
Nollau, Volker; et al. (11545b)
van Nunen, J. A. E. E. 2215
Rath, John H. (11574)
Rieder, Ulrich 9679
Sakaguchi, Minoru 14793
Schweitzer, Paul J.; et al. 12223
Veinott, Arthur F., Jr. 4675
Studies in optimization 4675
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) 2214,2215

90C45 *Markov renewal programming*

Teplickiĭ, M. G. 9680
White, Chelsea C. 4676

90C47 *Dynamic programming*

Bertelè, Umberto; et al. *4677
Bertsekas, Dimitri P. 2216
Bistrickas, V. 14794
Brioschi, Francesco; et al. *4677
Glassey, C. R.; et al. 12224
Karp, R. M.; et al. 12224

90C50 *Applications of mathematical programming*

Akinç, Ümit 9681
Bagchi, A.; et al. (6558)
Bereanu, B. 12225
Bol'šakov, V. A.; et al. (12192c)
Bonnieux, F. 9682
Braess, D. 4678
Bühler, W.; et al. (1429)
Charnetski, Johnnie R.; et al. 4679
D'Ans, G. C.; et al. (4612)
Daubeze, P. (4002)
Deutler, T.; et al. (1429)
Fujimoto, Takao (9620)
Gazis, D. C.; et al. (4612)
Golden, B. L. 2217
Hall, M. A. 4680
Henn, R.; et al. 4681
Hyun, Kwang Nam 4682
Kischka, P.; et al. 4681
Klingman, D.; et al. 4683
Kolev, L. V. 6961
Kutateladze, S. S.; et al. (12161)
Mensch, Gerhard (12195)
Minoux, M. (9638)
Pittel, B. G. (8923)
Razumihin, B. S. (4596-4598)
Roodman, Gary M. (6388)
Rubinšteĭn, G. Š.; et al. (12161)
Russell, Robert; et al. 4683
Savage, S. L.; et al. (6558)
Shimizu, Kiyotaka 2218
Šmelev, V. V.; et al. (12192c)
Soland, Richard M.; et al. 4679
Stancu, Minasian, I. M. 2219
Stanford, Robert E. 4684
Tamura, K. 6962
Uzdemir, A. P. (12192a-b)
Uzdemir, A. P.; et al. (12192c)
Weiner, P.; et al. (6558)
Symposium on the Theory of Computing, Fifth Annual ACM (Austin, Tex., 1973) (6558)
Two Symposia on Probability and Applications (4002)

90C99 *None of the above, but in this section*

Demjanov, V. F. 9683
Galajda, P. (11825)
Greenberg, Harvey J. 9684
Pogány, Csaba 9685
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 9683

90Dxx Game theory

(Šimel'fenig, O. V.) *4685
Mathematical models of behavior, No. 1 *4685

90D05 *2-person zero-sum games*

(Aggarwal, V.) 6965
Aubin, Jean-Pierre; et al. 12226
Berge, Claude; et al. (10061)
Bismut, Jean-Michel 9686
da Bruijn, N. G. (2532)
Bühlmann, H.; et al. *12227
Case, J. 4686
Cornet, Bernard; et al. 12226
Fraenkel, A. S.; et al. 2220
Grote, J. 2221
Las Vergnas, Michel; et al. (10061)
Loeffel, H.; et al. *12227
McClennen, Edward F. 9687
Moulin, Hervé 4687
Nievergelt, E. *12227
Orłowski, K.; et al. 6963
Radzik, T.; et al. 6963
Rubinov, M. M. 6964
Soyster, A. L. 9688
Tassa, U.; et al. 2220
Todd, Michael J. 6965
Vial, Jean-Philippe 9689
Westphal, L. C. 4688
Colloque sur la Théorie des Jeux (Bruxelles, 1975) 9689,(10061)
Control and dynamic systems, Vol. 11 4688
Differential games: a collection of articles 4686
Discrete mathematics (2532)

90D10 *n-person games, noncooperative*

Aumann, Robert J. 9690
Bühler, W. 12228
Germeĭer, Ju. B. 12229
Hallin, M. 2222
Kilgour, D. M. 4689
Marchi, Ezio 12230
Men'šikov, I. S. 4690
Moulin, H. 12231
Ştefănescu, Anton 12232,12233
Sūdžiūte, D. 9691
Colloque sur la Théorie des Jeux (Bruxelles, 1975) 2222,12231

90D12 *n-person games, cooperative, solution concepts*

Billera, Louis J.; et al. 4691
Bixby, Robert E.; et al. 4691
Butrim, B. I. 9692
Campbell, Donald E. 4692
Charnes, A.; et al. 14795
Granot, Daniel; et al. 14795
Kalai, G.; et al. 4693
Maschler, M.; et al. 4693
Mas-Colell, Andreu 4694
Neuefeind, Wilhelm 12234
Owen, G.; et al. 4693
Petitfrère, Marianne 9693
Colloque sur la Théorie des Jeux (Bruxelles, 1975) 9693

90D15 *Multistage games, stochastic* [*See also* 93E05.]

Danil'čenko, T. N. 4695
Himmelberg, C. J.; et al. 6966
Kydland, Finn (9705)
Marchi, Ezio 6967
Parthasarathy, T. (*5420)
Parthasarathy, T.; et al. 6966
Raghavan, T. E. S.; et al. 6966
Sakaguchi, Minoru 9694
Van Vleck, F. S.; et al. 6966

90D20 *Multistage games, recursive*

Anderson, Brian D. O.; et al. 2223
Čikriĭ, A. A. 4696
Clauss, U. 4697
Diem, N. D.; et al. 2223
Moulin, Hervé (4687)
Šmukler, Julija 6968
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (München, 1973) 4697

90D25 *Differential games*

Al'breht, È. G. 14796
Aliev, A. D. 14797
Azimov, A. Ja. 6969
Barron, Emmanuel Nicholas (7044)
Basar, T. 6970
Blaquière A.; et al. 14798
(Blaquière, A.) 2232
Breakwell, J. V.; et al. 6972
Caussin, P.; et al. 14798
Čencov, A. G. 2224,2225,6971,9695
Čikriĭ, A. A. 4698,4699,12235
Čikriĭ, A. A.; et al. 2226
Clemhout, S.; et al. 12236
Dzjubenko, G. C.; et al. 2226
Friedman, Avner *9696
(Granger, M.) 2232
Gusev, M. I.; et al. 4700
Gusjatnikov, P. B. 4701
Guzmán, Jorge González 9697
Hagedorn, P.; et al. 6972
Kaaz, M. A. 2227,9698
Kalton, N. J. 12237
Kerimov, A. K. 2228,6973
Kleĭmenov, A. F. 14799
Kloeden, P. E. 12238
Kurzanskiĭ, A. B.; et al. 4700
Leitmann, G.; et al. 12236
Lewin, J. 2229
Malafeev, O. A. 2230
Moriarty, G.; et al. 12239
Natarajan, T.; et al. 2231
Nikol'skiĭ, M. S. 4702
Osipov, Ju. S.; et al. 9700
Pierre, D. A.; et al. 2231
Požarickiĭ, G. K. 6974
Pšeničnyĭ, B. N. 2232
Satimov, N. 4703
Schmitendorf, W. E. 6975
Schmitendorf, W. E.; et al. 12239
Sentis, Rémi (13184)
Siemaszko, Czesław 14800
Stojanov, N. V.; et al. 2234
Subbotin, A. I. 9699
Subbotin, A. I.; et al. 2233a-b
Subbotina, N. N.; et al. 2233b
Szwiec, Wiesław 12240
Uŝakov, V. N.; et al. 2233a
Vaisburd, I. F.; et al. 9700
Vidyasagar, M. 9701
Wan, H. Y., Jr.; et al. 12236
Žukovskiĭ, V. I.; et al. 2234
Advances in game theory (Proc. Second All-Union Conf., on Game Theory, Vilnius, 1971) 2230
Differential game issue 6970,6972,9701,12239
Proceedings of the IFAC World Congress, Fifth (Paris, 1972), Part 4 2231
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 9699
Questions on engineering cybernetics 14797
Topics in differential games 2232,14798

90D30 *Utility theory* [*See also* 90A10.]

Narens, Louis 6976

90D35 *Decision theory* [*See also* 62Cxx,90A05.]

Arrow, Kenneth J. (9606)
Rander, Roy (4577,4578)
Shimizu, Kiyotaka (2218)
Decision and organization (a volume in honor of Jacob Marschak) (4577,4578,9606)

90D40 *Game theory models* [*See also* 65Cxx,68A55.]

Bird, Charles 9702
Moulin, Hervé 9703
Vasil'ev, V. A. 4704

90D45 *Applications of game theory*

Batuhtin, V. D.; et al. 6977
Billera, Louis J. (12165)
Čencov, A. G.; et al. 6977
Croucher, John S. 6978
Gruenhage, Gary (1170)
Heymann, M.; et al. (7042)
Höpfinger, Eckhard *9704
Kydland, Finn 9705
Pachter, M.; et al. (7042)
Pau, L. F. 2235
Scarf, Herbert; et al. (4601)
Shapley, Lloyd; et al. (4601)
Šintemirova, G. B. (14829)
Stern, R. J.; et al. (7042)
Underwood, Robert G. (6945)
Zdrzałka, Stanisław 6979

90D99 *None of the above, but in this section*

Daniel, Klaus 14801
Feinerman, Robert 4705
Gilat, David; et al. (6274)
Göbel, F. 2236
Li, Shuo Yen R. 14802
Lin, J. G. 6980
Malafeev, O. A. 9706
Orłowski, K.; et al. 12241
Radzik, T.; et al. 12241
Rosenmüller, J.; et al. (10536)
Šmadič, K. 12242
Stepanenko, V. N. 9707
Watson, R. K. (6240)
Weidner, H. G.; et al. (10536)
Weiss, Ernst-August, Jr.; et al. (6274)
Wilhelm, M. 2237

90D99 *Continued*

Differential game issue 6980
Oberwolfach-Tagung über Operations Research, Siebente (1974) 14801

92—XX BIOLOGY AND BEHAVIORAL SCIENCES

92-02 *Advanced exposition (research surveys, etc.)*

Mackey, Michael C. *9708

92-06 *Collections of papers; proceedings of conferences*

(Frank, G. M.) *6981
(Karlin, Samuel) *2238
(Nevo, Eviatar) *2238
Biological systems *6981
Conference on Population Genetics and Ecology (Israel, 1975) *2238
Ecology *2238
Mathematical models of biological systems *6981
Population genetics and ecology (Proc. Conf., Israel, 1975) *2238

92A05 *Biology*

Afanas'eva, L. G.; et al. 14803
Beck, James S.; et al. (7015)
(Beer, Stafford) (*4731,*4732)
Berezovskiĭ, A. A.; et al. 9709
(Cane, Violet) (11536,11537)
Čavčanidze, V. V. 6982
Četaev, A. N. (14109)
Coleman, Bernard D.; et al. 4706,9710a-b
Čorajan, O. G.; et al. 14803
(Cormack, R. M.) (11536,11537)
Debnath, L. 14804
Fitzgerald, D.; et al. (1875)
Foht, O. S. (9100)
Foht, O. S.; et al. 9709
Frijters, D.; et al. 4707
Frisch, H. L.; et al. 9711
(Hanika, F. de P.) (*4732)
Herman, G. T. (6567)
Karpenko, L. D.; et al. 14803
Kendall, David G. (11537)
(Kent, John) (11536,11537)
Kleinerman, Jerome; et al. 14806
Klonecki, W. 6983
Krjukov. V. I. 4708
(Lewis, T.) (11536,11537)
Lindenmayer, A.; et al. 4707
Liotta, Lance A.; et al. 14806
(Loynes, R.) (11536,11537)
Malašenko, Ju. R.; et al. 9709
(Mardia, K. V.) (11536,11537)
Matthews, G. V. T. (11536)
Mayoh, Brian H. (4194)
Mazanov, Alex 12243
McCormack, P. D.; et al. (1875)
Mučnik, F. V.; et al. 9709
(Nelder, J. A.) (11536,11537)
Neyman, Jerzy; et al. 4709
Odell, Garrett M.; et al. 9711
Oğuztöreli, M. N.; et al. 14807
Peskin, Charles S. *2239
Petunin, Ju. I.; et al. 14803
(Pichler, Franz R.) (*4731)
Plesset, Milton S.; et al. 6984
Puri, Prem S.; et al. 4709
Rapp, P. 9712
Rashevsky, N. 14808,14809
Rauch, Jeffrey (13353)
Renninger, G. H.; et al. 4706,9710a-b
Rescigno, Aldo; et al. (7015)
(Reuter, G. E. H.) (11536,11537)
Rosen, Gerald 9713
Saidel, Gerald M.; et al. 14806
(Siegerstetter, Jill) (11536,11537)
Sinha, A. S. C. (5593)
Solncev, S. V. (14892)
(Soloman, H.) (11536,11537)
Spencer Brown, G. (*4892)
Stein, R. B.; et al. 14807
(Stephens, M. A.) (11536,11537)
Tăutu, Petre 12244
Torre, Vincent 12245
(Trappl, Robert) (*4731,*4732)
(Upton, G. J. G.) (11536,11537)
Veresov, V. G. 6985
Whipple, Christopher G.; et al. 6984
(Williams, David) (11536,11537)
(Williams, Trevor) (11536,11537)
Winet, Howard; et al. 6984
Wohlgemuth, Andrew 9714
Biocybernetics (*4731)
Boundary value problems of the theory of heat conduction (9100),9709
Cognition and learning (*4732)
Cybernetics (*4731,*4732)
Engineering systems (*4731)
European Meeting on Cybernetics and Systems Research, Second (Vienna, 1974) (*4731,*4732)
Foundations of mathematical biology, Vol. II (7015)
Foundations of mathematical biology, Vol. III 14808,14809
General systems (*4731)
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) (4194),4707,(6567)
Neural systems (*4731)
Organization and management (*4732)
Progress in cybernetics and systems research (Second European Meeting, Vienna, 1974), Vol. I (*4731,*4732)
Progress in cybernetics and systems research (Second European Meeting Vienna, 1974), Vol. II (*4732)
Questions of statistics and of the control of random processes 14803
Socio-economic systems (*4732)
Stochastic differential equations (Proc. Sympos., New York, 1972) 14805
Systems education (*4732)
Systems research (*4731,*4732)

92A10 *Genetics*

Aase, Knut (14129)
Aggarwal, K. R. (8997)
Bedian, Vahe; et al. 2240
Cannings, C.; et al. 9715
Carmeli, D.; et al. 14810
Cavelli-Sforza, L. L.; et al. 2243
(Charlesworth, B.) *9718b
(Charlesworth, D.) *9718b
Christiansen, Freddy Bugge; et al. 4712
Cokerham, C. C. 9617
Corluy, R.; et al. 6986
(Courgeau, Daniel) *9718a-b
Crick, F. H. C. 2241
Eshel, Ilan 2242
Feldman, Marcus W.; et al. 2243,4712
Herman, Gabor T.; et al. 2240
Heyde, C. C.; et al. 2244
Hinkelmann, Klaus 9717
Holgate, P. 6987
Ineichen R. 4710
Jacquard, Albert *9718a-b
Jayakar, S. D.; et al. 2247
Karlin, S.; et al. 14810
Kimura, Motoo; et al. 9719
Kingman, J. F. C. (8879)
Latter, B. D. H. 2245
(Lewontin, R. C.) *9718b
Li, Wen-Hsiung 12246
Li, Wen-Hsiung; et al. 4711
Macdonald, P. D. M. 2246
Maruyama, Takeo; et al. 9719
Matessi, C.; et al. 2247
Meersman, W.; et al. 6986
Moran, P. A. P. 6988a-b,9720
Nei, Masatoshi; et al. 4711
Postelnicu, Tiberiu 9721
Rosen, Robert 2248
Rothman, Edward D.; et al. (4018)
Seneta, E.; et al. 2244
Sing, Charles F.; et al. (4018)
Skolnick, M. H.; et al. 9715
Smith, Cedric A. B. 6989
Stark, A. E. 12247
Stene, Jon 6990
(Sutter, J.) *9718a
Vetta, Atam 4713
Wagener, Diane K. 4714
Foundations of mathematical biology, Vol. I 2248
L systems (Third Open House, Comput. Sci. Dept., Aarhus Univ., Aarhus, 1974) 2240
Perspectives in probability and statistics (papers in honour of M. S. Bartlett on the occasion of his 65th birthday) 2246
Population genetics and ecology (Proc. Conf., Israel, 1975) 9716
Survey of statistical design and linear models 9717

92A15 *Population dynamics, epidemiology*

Abakuks, Andris 6991,(14167)
Armstrong, Robert A.; et al. 9722
Atkinson, C.; et al. 4715
Bazin, M. J.; et al. 9733
Beddington, J. R.; et al. 12248
Beyer, Jan E.; et al. (14138)
Bleistein, N.; et al. 7000
Brauer, Fred (5554),9723
Brauer, Fred; et al. 2249,9724
Brewer, John W. 9725
Bulmer, M. G. 4716
Christiansen, Freddy Bugge; et al. (4712)
Comins, H. N.; et al. 9731
Cooke, Kenneth L.; et al. 4717
Cormack, R. M.; et al. (14137)
Cornette, James L. 14811
De Angelis, D. L. 9726
Diggle, Peter J. 9727
Feichtinger, Gustav 9728
Feldman, Marcus W.; et al. (4712)
Foster, J.; et al. 7000
Franco, A.; et al. 12250
Free, C. A.; et al. 12248
Gard, T. C.; et al. (14099)
Goh, B. S. 6992
Golubitsky, Martin; et al. 9729
Gruber, Boris 9730
Hassell, M. P.; et al. 9731
(Hinkley, Sidney W.) (14138)
Hoem, Jan M. (1524)
Hoem, Jan M.; et al. (11542)
Jarosch, H. S.; et al. 9724
Kannan, D.; et al. (14099)
Karlin, Samuel; et al. 4718,4719
Keeler, Emmett B.; et al. 9729
Keiding, Niels; et al. (11542,14138)
Kryscio, Richard J.; et al. 6993
Ladde, G. S. (2291)
León, Jesús Alberto 4720
Levikson, Benny; et al. 4719
Li, Wen-Hsiung; et al. (4711)
Lieberman, Uri; et al. 4718
Ludwig, Donald 6994
Maruyama, Takeo 4721
McGehee, Richard; et al. 9722
McNeil, D. R. 4722
Morgan, Byron J. T. (3856)
Muhomor, T. P. 6996
Muhomor, T. P.; et al. 6995
Nagaev, A. V.; et al. 6995
Nåsell, Ingemar 4723,4724
Nastansky, L.; et al. 4725
Nei, Masatoshi; et al. (4711)
Newton, J.; et al. (14137)
Prajneshu (1383)
Pyh, Ju. A. (13223)
Radcliffe, J. (6308),9732
Reuter, G. E. H.; et al. 4715
Rorres, Chris 6997
Rothschild, Michael; et al. 9729
Roughgarden, Jonathan 2250
Sánchez, David A.; et al. 2249
Saunders, P. T.; et al. 9733
Saunders, Roy 12249
Saunders, Roy; et al. 6993
Selkov, S. M.; et al. 4725
Smale, S.; et al. 2251
Smith, Truett L.; et al. 6998
Soudack, A. C.; et al. 9724
Starcev, A. N. 6999
Stewart, N. F.; et al. 4725
Swan, George W. 2252
Thompson, Robin 14812
Tognetti, Keith 2253
Trubatch, S. L.; et al. 12250
Tsokos, Chris P. (14139)
Tsokos, Chris P.; et al. 6998
(Tsokos, Chris P.) (14138)
Vasilik, P. V. 12251
Warren, P.; et al. 7000
Williams, R. F.; et al. 2251
Yorke, James A.; et al. 4717
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) 2249
Ordinary differential equations: 1971 NRL-MRC Conference 4717,(5554)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. I (1524)
Random processes and statistical inference, No. 5 6995,6996,6999
Studies in probability and statistics (papers in honour of Edwin J. G. Pitman) 4722

92A20 *Sociology*

Affuso, Paul J.; et al. (9608)
Brams, Steven J.; et al. (9608)
Fishburn, Peter C. 7001
Hallinan, Maureen; et al. 9734
Holland, Paul W.; et al. 12252
Leinhardt, Samuel; et al. 12252
McFarland, David D.; et al. 9734
Peay, Edmund R. 7002
Savage, I. Richard; et al. (3781)
Webster, Murray, Jr.; et al. (3781)
Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, Sixth (Univ. California, Berkeley, Calif., 1970/1971), Vol. IV (3781)

92A25 *Psychology*

Agababjan, K. G. 7003
Alder, M. D. 12253
Altham, Patricia M. E. (11713)
Chant, Verne G.; et al. 7004
van Doorn, A. J.; et al. 7005
Fay, G.; et al. 2254
Greitzer, Frank L.; et al. 12256
Kantarija, G. V. 12254
Koenderink, J. J.; et al. 7005
Krantz, David H. 4726
Luenberger, David G.; et al. 7004
Nagano, Takashi 9735
Norman, M. Frank (*11522)
Shepard, Roger N. (1526)
(Staël von Holstein, Carl-Axel S.) (*8768)
Takacs, D. V.; et al. 2254
Tonge, D. G. 4727
Townsend, James T. 12255
Wallsten, Thomas S. 9737
Wickens, Thomas D.; et al. 12256
Concept of probability in psychological experiments (*8768)
Probability (*8768)

92A99 *None of the above, but in this section*

Aleksandrov, E. A. 2255
Atkin, R. H. 12257
Atkins, John R. 9738
Bali, Hari N.; et al. 14813
Barr, Robert O.; et al. 7006
Bar-Shalom, Yaakov; et al. 2256
Boykin, W. H., Jr.; et al. (7036)
Carson, Ewart R.; et al. 14813
Clark, Colin W. *4728
Cohen, Arthur I.; et al. 2256
Cooper, C. Anthony; et al. (7052)
Cotton, J. W.; et al. 12258
Gage, Stuart H.; et al. 7006
Gheorghe, Adrian V.; et al. 14813
Ghosh, T. K.; et al. (7036)
Harris, C. W.; et al. 12258
Hullett, Wayne (5934)
Kharkar, Anil N.; et al. 7006
Krishnamurthy, E. V. (4212)
Lee, Kwang Yun; et al. 7006
Longman, Richard W.; et al. (7052)
Olgaç, Nejat M.; et al. (7052)
Wilkins, C. W. 4729
Wörz-Busekros, Angelika (13326)
Genealogical mathematics (Proc. MSSB Conf., Univ. Texas, Houston, Tex., 1974) 9738

93—XX SYSTEMS, CONTROL (For optimal control (nonstochastic), see 49—XX.)

Andrisani, Dominick, II; et al. 2257
Asher, Robert B.; et al. 2257
Dorato, Peter; et al. 2257
Bibliography: Adaptive control systems 2257
Collection: Adaptive systems 2257

93-01 *Elementary exposition (collegiate level)*

Aarna, O. *14814
Skljarevič, A. N. *14815
Vlach, Milan *14816

93-02 *Advanced exposition (research surveys, etc.)*

Andrienko, A. Ja.; et al. 7007
Csáki, Frigyes *7008
D'Angelo, Henry *4730
Evlanov, L. G. *7009
Ivanov, V. P.; et al. 7007
(Kuzovkov, N. T.) *4730
Lerner, A. Ja. 9739
Moiseev, N. N. *9740
Petrov, B. N.; et al. 7007
Pichler, Franz *7010
Portnov-Sokolov, Ju. P.; et al. 7007
Control and dynamic systems: advances in theory and applications, Vol. 11 9739

93-06 *Collections of papers; proceedings of conferences*

(Gamkrelidze, R. V.) (*6217)
(Kobyšev, A. A.) (*2378)
(Lainiotis, Demetrios G.) *2258
(Meerov, M. V.) (*9605)
Adaptive systems *2258
Collection: Adaptive systems *2258
Complex systems (*2378)
Control theory (*12417,*12418)
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. II (*12417)
Control theory and topics in functional analysis (Internat. Sem., Internat. Centre Theoret. Phys., Trieste, 1974), Vol. III (*12418)
Cybernetics (*6217)
Functional analysis (*12417,*12418)
Itogi Nauki i Tehniki (*6217)
Mathematical statistics (*6217)
Multivariable control systems (*9605)
Numerical analysis, and statistical models of complex systems, Part II (*2378)
Optimization methods for multivariable control systems (*9605)
Probability theory. Mathematical statistics. Theoretical cybernetics, Vol. 13 (*6217)
Statistical models (*2378)

93Axx General

Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) (*9124)
Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) (*9125)
Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) (*9124)
Proceedings of the Hawaii International Conference on System Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) (*9125)
System Sciences (*9124,*9125)

93A05 *Axiomatic system theory*

Jacak, Witold; et al. 7011
Klimkiewicz, Wojciech (12433)
Tchoń, Krzysztof; et al. 7011

93A10 *General systems*

Aronovič, A. B.; et al. (*14469)
Bašaleišvili, D. I. 7012
Beck, James S.; et al. 7015
(Beer, Stafford) *4731,*4732
Berezovs'kiĭ, A. I.; et al. *2259
Bose, N. K. 4733
Czayka, Lothar *4734
Ežov, È. V.; et al. (*14469)
Florinskiĭ, A. B.; et al. (*14469)
Friedman, George J. 7013
Goguen, J. A.; et al. (10373)
Gorbatenko, N. G.; et al. (*14469)
(Hanika, F. de P.) *4732
Ivanov, V. V.; et al. *2259
Kobrinskiĭ, A. A.; et al. 4735
Kobrinskiĭ, A. E.; et al. 4735
Kouvatsos, D. D. 7014
Lepeha, N. P. *2259
Lerner, V. S. 4736
Orava, P. J. 12259
(Pichler, Franz R.) *4731
Rescigno, Aldo; et al. 7015
Rogov, E. I. *4737
Suvorov, B. P.; et al. (*14469)
(Swamy, M. N. S.) (*12403)
Thatcher, J. W.; et al. (10373)
(Trappl, Robert) *4731,*4732
Wagner, E. G.; et al. (10373)
Wright, J. B.; et al. (10373)
Zadiraka, V. K.; et al. *2259
Zdorenko, L. D.; et al. *2259
Biocybernetics *4731
Circuits and systems theory (*12403)
Cognition and learning *4732
Cybernetics *4731,*4732
Engineering systems *4731
European Meeting on Cybernetics and Systems Research, Second (Vienna, 1974) *4731,*4732
Foundations of mathematical biology, Vol. II 7015
General systems *4731
Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, 1975) (*12403)
Neural systems *4731
Organization and management *4732
Proceedings of the Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) (*12403)
Progress in cybernetics and systems research (Second European meeting, Vienna, 1974), Vol. I *4731
Progress in cybernetics and systems research (Second European Meeting, Vienna, 1974), Vol. II *4732
Recent trends in systems theory 4733
Socio-economic systems *4732
Systems education *4732
Systems research *4731,*4732
Systems theory (*12403)

93A15 *Large scale systems (approximation techniques)*

Borne, P.; et al. 2260
Burmeister, Heinz Ludwig 14817
Chu, Kai Ching 4738
Gentina, J. C.; et al. 2260
Hartmann, Heinz-Ullrich; et al. 14817
Jakimčuk, G. S.; et al. 7016
Laurent, F.; et al. 2260
Lepeha, N. P. 2261
Liu, Ruey Wen; et al. 9742
Malinowski, Krzysztof; et al. 14818
Marrett, R.; et al. (9873)
Nikitin, Ju. P.; et al. 7016
Pervozvanskiĭ, A. A. 9741
Roe, P. H.; et al. (9873)
Ruszczyński, Andrzej; et al. 14818
Singh, Sudarshan Pal; et al. 9742
Sirik, V. K.; et al. 7016
Certain questions on simulation and systems control 2261
Large-scale networks 9742
Sensitivity, adaptivity and optimality (Third IFAC Sympos., Ischia, 1973) 2260

93A99 *None of the above, but in this section*

Čekalina, G. V.; et al. (6446,6447)
Fatkin, Ju. M.; et al. (6444,6447)
Hoard, R. E.; et al. (2678)
Huband, F. L.; et al. (2678)
Simkin, M. M. 4739

93Bxx Controllability, observability, and system structure

Loewy, Raphael (2699a-b)
Wimmer, Harald K. (10298)

93B05 *Controllability, observability, definitions and criteria*

Bhat, K. P. M.; et al. 12260,12261
Brandin, V. N.; et al. 12262
Chukwu, Ethelbert N. 4740
Conti, R. (11150)
DasGupta, Chaitali; et al. 4741
Davison, E. J.; et al. 14819
Fornasini, Ettore; et al. (2342)
Francis, B.; et al. 2262
Glover, K.; et al. 12263
Harper, Thurman R.; et al. 9743
Heinen, James A.; et al. 4741
Ionescu, Vlad 4742
Klamka, Jerzy 12264
Koivo, H. N.; et al. 12260,12261
Kostjukovskiĭ, Ju. M.-L.; et al. 12262
Manitius, Andrzej; et al. 12265
Marchesini, Giovanni; et al. (2342)
Molinari, B. P. 9744
Narendra, Kumpati S.; et al. 12266
Olbrot, Andrzej W.; et al. 12265
Razorenov, G. N.; et al. 12262
Rissanen, J.; et al. 7017
Rosenbrock, H. H. 12267
Rugh, Wilson J.; et al. 9743
Sebakhy, O. A.; et al. 2262
Silverman, L. M.; et al. 12263
Valavani, Lena S.; et al. 12266
Wang, S. H.; et al. 14819
Wei, Kuang Chung 4743
Witsenhausen, H. S. 12268

93B05 *Continued*

Wonham, W. M.; et al. 2262
Wyman, B.; et al. 7017
Category theory applied to computation and control (Proc. San Francisco, Calif., 1974) 7017
Collection: Adaptive systems 12266
International Conference on Differential Equations (Univ. Southern California, Los Angeles, Calif., 1974) (11150)

93B10 *Canonical structure*

Andria, F.; et al. 4744
Aracil, J.; et al. 7018
Barnao, E.; et al. 4744
Beghelli, S.; et al. 4745
Datta, K. B. 12269
Dickinson, Bradley W. 4746
Falb, P. L.; et al. 12270
Guidorzi, R.; et al. 4745
Kalman, R. E. 9745
Montes, C. G.; et al. 7018
Raimondi, T.; et al. 4744
Wolovich, W. A.; et al. 12270
Ordinary differential equations: 1971 NRL-MRC Conference 9745

93B15 *Realizability of systems from input-output data*

Lee, Bruce E. 7020
Tsoi, A. C. 9746
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 7020

93B20 *Minimal systems representations*

d'Alessandro, Paolo; et al. 12271
Bullock, T. E.; et al. 12272
Emre, Erol; et al. 7021
Fallside, F.; et al. 4748,14820
Isidori, Alberto 4747
Isidori, Alberto; et al. 12271
Patel, R. V.; et al. 4748
Roman, J. R.; et al. 12272
Ruberti, Antonio; et al. 12271
Shieh, L. S. (14342)
Shieh, L. S.; et al. (14343)
Silverman, Leonard M.; et al. 7021
Sinswat, V.; et al. 4748,14820
Wei, Y. J.; et al. (14343)
Yates, Robert; et al. (14343)

93B25 *Algebraic theory of time-invariant systems*

Baras, John S.; et al. 4749
Barnett, Stephen 9747
Cavin, R. K., III; et al. 9748
Dewilde, Patrick; et al. 4749,(5269)
Ferreira, P. G. 14821
Fuhrmann, Paul A. 2263
Furuta, K.; et al. 7022
Howze, J. W.; et al. 9748
Ishizima, Shintaro; et al. 4750
Kaczorek, Tadeusz 9749
Kamiyama, S.; et al. 7022
Karcanias, N.; et al. 7023,9754
King, R. E.; et al. 7026
Kono, Michio; et al. 9750
Macfarlane, A. G. J.; et al. 7023
Mita, T. 9751
Molinari, B. P. 12273,12274
Moore, B. C. 7024
Mori, Kinji; et al. 4750
Paraskevopoulos, P. N. 7025
Paraskevopoulos, P. N.; et al. 7026
Patel, R. V. 9752
Porter, B.; et al. 7027
Porter, William A. 4751
Powers, David L. 7028
Pugh, A. C. 9753
Sain, Michael K. 2264
Shaked, U.; et al. 9754
Shenton, A. T.; et al. 7027
Shimemura, Etsujiro; et al. 4750
Sugiura, Ichiro; et al. 9750
Thisayakorn, C.; et al. 9748
Vandewalle, J.; et al. (5269)
Willems, Jan C. 7029
Wolovich, W. A. 2265
Recent trends in system theory 2264,4749,4751

93B30 *System identification*

Borodjuk, V. P.; et al. 9755
Bunič, A. L.; et al. 14822
Chavent, Guy 4752
Delforge, Jacques 14823
Gal'perin, E. A. 9756
Goodwin, Graham C.; et al. 9758
Jakovlev, V. P. 2266
Kalaba, R. E.; et al. 2267
Kozielski, Stanisław 7030
Kuznecov, V. E.; et al. 9755
Landau, I. D. 2268
Mayne, D. Q. 12275
Milanese, Mario 12276
Ozeki, Kazuhiko 9757
Payne, Robert L.; et al. 9758
Raĭtman, N. S.; et al. 14822
Rozov, Ju. L.; et al. 12277
Sen, A.; et al. 12278
Sinha, N. K.; et al. 12278
Spingarn, K.; et al. 2267
Stapleton, G. A. 9759
Ulickiĭ, M. B.; et al. 12277
Zarrop, Martin B.; et al. 9758
Computational methods in nonlinear mechanics (Proc. Internat. Conf., Austin, Tex., 1974) 9756
Discrete control systems 2266
Identification of parameters in distributed systems (Joint Automat. Control Conf., Univ. Texas, Austin, Tex., 1974) 4752
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) 12275

93B35 *Sensitivity*

DeSantis, Romano M.; et al. 4753
Dončev, Asen L. 2269
Ermačenko, O. I.; et al. 12279
Garfinkle, J.; et al. 14824
Kagiwada, H.; et al. 14824
Kalaba, R.; et al. 14824
Locatelli, A.; et al. 12280
McLain, E.; et al. 14824
Paraskevopoulos, P. N.; et al. 14825
Porter, William A.; et al. 4753
Reinschke, Kurt; et al. 2270
Schiavoni, N.; et al. 12280
Schwarz, Peter; et al. 2270
Tzafestas, S. G.; et al. 14825
Zdor, V. V.; et al. 12279

93B99 *None of the above, but in this section*

Kouvaritakis, B.; et al. 2271,2272
Ludyk, Günter *2273
MacFarlane, A. G. J.; et al. 2271,2272
Patel, R. V. 9760,9761
Perel'man, M. E. (9434)
Seborg, Dale E.; et al. 2274
Topaloglu, Toros; et al. 2274
Vardulakis, A. I. 4754

93Cxx Control systems, guided systems

Barraud, A. 12304
(Fu, K. S.) (*6535)
(Kleinman, D. L.) 12304
Japan-U.S. Seminar on Learning Process in Control Systems (Nagoya, 1970) (*6535)
Machine learning (*6535)
Pattern recognition and machine learning (Proc. Japan-U.S. Sem. Learning Process in Control Systems, Nagoya, 1970) (*6535)

93C05 *Linear*

Bernholtz, B.; et al. 12281
Chuang, S. C. 7031
Fam, A. T.; et al. 14826
Ferreira, P. G. 2275
Feuer, Arie; et al. 7032
Graupe, Daniel 14827
Heymann, Michael; et al. 7032
Horne, G. J.; et al. 12281
Johnson, C. D. 4755
Kouvaritakis, B.; et al. 9762
Kwon, W. H.; et al. 7033
Meditch, J. S.; et al. 14826
Mihaĭlov, F. A. 9763
Mita, Tsutomu 2276
Pearson, A. E.; et al. 7033
Shaked, U. 7034
Shaked, U.; et al. 9762
Sherif, A.; et al. 2277
Siouris, G. M. 9764
Treĭvas, V. G. 9765
Wimmer, Harald K. (333)
Wu, Min Yen; et al. 2277
Ziegler, E. 7035
Control and dynamic systems, Vol. 12 4755

93C10 *Nonlinear*

Boykin, W. H., Jr.; et al. 7036
Bruni, Carlo; et al. 2278
Clique, M.; et al. 9766
DiPillo, Gianni; et al. 2278
Fossard, A. J.; et al. 9766
(Garg, D. P.) 7037
Ghosh, T. K.; et al. 7036
Gilbert, Elmer G. 4756
Göldner, Klaus 12282,12283
Haddad, Emile K. 4757
Horiuchi, Kazuo; et al. 4758
Imbert, N.; et al. 9766
Jamshidi, M. 2279
Koch, Giorgio; et al. 2278
Kudin, V. F. 7037
Landa, P. S. 12284
Ono, Masahiko; et al. 4758
Popov, E. P. *7038
(Rouse, W. B.) 7037
Senik, P. M.; et al. 9767
Shneydor, N. A.; et al. 7039
Sokĭl, B. I.; et al. 9767
Vinter, R. B. 12285
Zames, G.; et al. 7039

93C15 *Systems governed by ordinary differential equations*

Baeger, Ingo; et al. 12286
Baĭtman, M. M. *4759
Barnard, Robert D. (1056,1057),2280
Bagar, Tamer 7040
Basuthakur, S.; et al. 14828
Beck, James S.; et al. (7015)
Boyarsky, A. 7041
Döring, Peter; et al. 12286
Estrada, Richard F. 9768
Grübel, G. 4760
Heymann, M.; et al. 7042
Knapp, C. H.; et al. 14828
Kokotović, Petar V. (8410)
Love, John T.; et al. 14830
März, Roswitha; et al. 12286
Neĭštadt, A. I. (9212)
Nikolenko, I. V. 12287
Pachter, M.; et al. 7042
Parks, P. C. (1058)
Rescigno, Aldo; et al. (7015)
Rutkovskiĭ, V. Ju.; et al. 12288
Rutman, R.; et al. 9769
Ryan, E. P. 7043
Shamash, Y.; et al. 9769
Šintemirova, G. B. 14829
Stern, R. J.; et al. 7042
Tkalič, E. F.; et al. 2281
Tkalič, V. S.; et al. 2281
Truchard, James J.; et al. 14830
Womack, Baxter F.; et al. 14830
Zemljakov, S. D.; et al. 12288
Certain questions on simulation and systems control 2281
Foundations of mathematical biology, Vol. II (7015)
Summer Research Conference on Singular Perturbations: Theory and applications (Northern Arizona Univ., Flagstaff, Ariz., 1975) (8410)

93C20 *Systems governed by partial differential equations*

Amouroux, Marcel; et al. 9770
Babary, Jean-Pierre; et al. 9770
Barron, Emmanuel Nicholas 7044
Bukreev, V. Z. (9082)
Butkovskiĭ, A. G. 14831
Butkovskiĭ, A. G.; et al. 2282,12289
Darinskiĭ, Ju. V.; et al. 12289
Hackevič, V. P. 9771,9772
Haug, E. J., Jr. 7045
Hullett, Wayne (5934)
Köhler, M. (4149)
Lapidus, Leon; et al. 14832
Liu, Y. A.; et al. 14832
McGlothin, G. E. 7046,12290
Mustafaev, M. I.; et al. 2282
N-Nagy, F. L.; et al. 2283
Pustyl'nikov, L. M.; et al. 12289
Razzaghi, M. 4761
Sirazetdinov, T. K. 4762
Takahashi, S.; et al. 2283
Uraz, A.; et al. 2283
Vermeychuk, J. Gregory 4763
Yvon, J. P. 14833
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) 14833
Transactions of the Conference of Army Mathematicians, Seventeenth (1971) 7045

93C20 *Continued*

Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) (4149)

93C22 *Systems governed by integral equations*

Horiuchi, Kazuo 12291
Sim, Lak Chong 9773

93C25 *Systems in abstract spaces*

Helton, J. William 4764
Michel, Philippe 14834
Rolewicz, Stefan (11137)
Warren, Richard H. 2284
von Wolfersdorf, Lothar 9774
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconson, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) (11137)
Recent trends in system theory 4764

93C40 *Adaptive*

Åström, K. J. 7048
(Athans, M.) (9820)
Boland, J. S., III; et al. 9775
Chant, Verne G.; et al. (7004)
Colburn, Bruce K.; et al. 9775
Fradkov, A. L. 4765
Jarvis, R. A. 14835
Luenberger, David G.; et al. (7004)
Narendra, Kumpati S.; et al. (12266)
Tse, Edison (9820)
Vachtsevanos, G. J. 4766
Valavani, Lena S.; et al. (12266)
Collection: Adaptive systems (12266)
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) 7048

93C45 *Time-invariant*

Campbell, Stephen L. 12292
Davison, Edward J. 12293a-b
(Davison, Edward J.) 12294
Gerzon, M. A. 2285
Johnson, C. D.; et al. 12294
Kung, C. F. 4767
Lariu, V. B.; et al. 14836
Nair, G. Gopalakrishnan (4104)
Naumenko, K. I.; et al. 14836
Slivinsky, Charles; et al. 4768
Suncev, U. N.; et al. 14836
Wolovich, W. A. 7049
Zahr, Khalil M.; et al. 4768

93C55 *Discrete-time*

Ackermann, Jürgen *9776
Akashi, Hajime; et al. 9777
Bradshaw, A.; et al. 2286
Burdet, C. A.; et al. 7050
Claasen, Theo A. C. M.; et al. 12295
Cooper, C. Anthony; et al. 7052
Fujishige, Satoru 7051
Kaczorek, Tadeusz 2287
Kolev, L. I. 12296
Koplowitz, J.; et al. 4769
Krishnan, K. R.; et al. 4769
Kumamoto, Hiromitsu; et al. 9777
Leonhard, Werner *9778
Longman, Richard W.; et al. 7052
Mecklenbräuker, Wolfgang F. G.; et al. 12295
Mullis, Clifford T. 9779
(Murthy, D. N. P.) 7051
Nose, Kazuo; et al. 9777
Olgaç, Nejat M.; et al. 7052
Page, J. A.; et al. 4770
Peek, J. B. H.; et al. 12295
Pichler, F. 2288,2289
Porter, B.; et al. 2286
Sankaran, V. 12297
Sethi, S. P.; et al. 7050
Solheim, Ole A. 7053
Stear, E. B.; et al. 4770
Sundareshan, Malur K. 14837
Witsenhausen, Hans S. (12337)
Applications of Walsh functions (Proc. Sympos., Washington, D. C., 1971) 2288
Control and dynamic systems, Vol. 11 4770

93C60 *Continuous-time*

Geering, Hans P. 9780

93C99 *None of the above, but in this section*

Aoki, Masanao 7054
Bailey, J. E.; et al. 14838
Desoer, Charles A.; et al. 4771
Gičev, Todor 12298
Jamshidi, M. 9781
Leitmann, G.; et al. 9783
Liaw, J.-S.; et al. 14838
Osipov, V. M. 9782
Shaked, Uri; et al. 12299
Speyer, Jason L.; et al. 12299
Wilson, D. J.; et al. 9783
Yahagi, Takashi 9784,9785
Proceedings of the IFAC World Congress, Fifth (Paris, 1972), Part 3 7054

93Dxx Stability

93D05 *Ljapunov stability*

Anderson, Brian D. O.; et al. 7055
Bazin, M. J.; et al. (9733)
Borne, P.; et al. 12300
Gentina, J. C.; et al. 12300
Grujić, Ljubomir T.; et al. 2290,12300
Hamada, Nozomu; et al. 12302
Hever, Gary A.; et al. 7056
Jury, Eliahu I.; et al. 7055
Kuwahara, Michiyoshi; et al. 14839
Ladde, G. S. 2291
Malek-Mansour, M.; et al. 7055
Michel, Anthony N.; et al. 7057
Mori, Takehiro; et al. 14839
Nazaroff, Gregory J.; et al. 7056
Pohjavirta, Armo 12301
Rasmussen, Robert D.; et al. 7057
Sasaki, Yoshinari; et al. 12302
Saunders, P. T.; et al. (9733)
Schmitendorf, W. E.; et al. 9786
Šiljak, Dragoslav D.; et al. 2290
Singh, Sahjendra N. (9215)
Sinha, A. S. C. 2292
Takahashi, Shin-ichi; et al. 12302
Walker, J. A.; et al. 9786

93D10 *Popov-type stability of feedback systems*

Antonov, V. G. 9787
Bendrikov, G. A.; et al. 2293
Fonseca Araujo, U.; et al. 2293
Halanay, A. (5582)
Jossełson, R.; et al. 2294
McClamroch, N. H. 7058a-b
Raju, G. V. S.; et al. 2294
Proceedings of the International Conference on Nonlinear Oscillations, Fifth (Kiev, 1969), Vol. 1 (5582)

93D15 *Stabilization of systems by feedback*

Ahmari, Reza 14840
Bélanger, P. R.; et al. 4772
Bergen, Arthur R.; et al. 7062,9790
Callier, F. M. 2295
Chan, Wan S.; et al. 4771
Cook, P. A.; et al. 2297
Corfmat, J. P.; et al. 7059
Datko, Richard 9788
Docenko, A. I. 12303
Harris, Christopher J. (12327)
Horisberger, H. P.; et al. 4772
Kleinman, David L. 9789
Kwon, W. H.; et al. (7033)
Mirică, Şt. 2296a-b
Morse, A. S.; et al. 7059
Pandolfi, L. 7060
Pearson, A. E.; et al. (7033)
Porter, B. 14841
Rosenbrock, H. H.; et al. 2297
Seborg, Dale E.; et al. (2274)
Steding, Thomas L.; et al. 9790
Sultan, M. A. 7061
Takeda, Shoichi; et al. 7062
Topaloglu, Toros; et al. (2274)
Weakley, R. H.; et al. 4774
Willems, Jan C. 4773
Wu, M. Y.; et al. 4774
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 9788
Recent trends in system theory 4771,4773
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) (12327)

93D99 *None of the above, but in this section*

Abd-Ali, A.; et al. 4775a-b
Anderson, Brian D. O.; et al. (5274)
Barraud, A. 12304
Bernussou, J.; et al. (5552)
Bose, N. K.; et al. 4776
Celigorov, N. A.; et al. 2299
Combot, J. P.; et al. 9791
Dubilovič, V. M.; et al. *4777
Evans, F. J.; et al. 4775a-b
Farmer, C. (4804)
Fradellos, G.; et al. 4775a
Francis, B. A.; et al. 7063
Grasselli, Osvaldo M.; et al. 7064
Jury, E. I.; et al. (5274)
Kalinin, S. V. *14842
Kuwahara, Michiyoshi; et al. 14843
Liu, H.; et al. (5552)
Modarressi, A. R.; et al. 4776
Mori, Takehiro; et al. 14843
Murgan, A. T. 12305
Narayana, C. L.; et al. 7065
Nicolò, Fernando; et al. 7064
Noldus, Erik J. L. 12306
Pai, M. A.; et al. 7065
Popov, E. P. (*7038),14844
Răsvan, Vl. 4778
Red'kin, V. B. 2298
(Rumjancev, V. V.) *14842
Sandell, Nils R., Jr. 9792
Šepeljavyĭ, A. I. 7066
Serkov, V. I.; et al. 2299
Shneydor, N. A.; et al. (7039)
Šiljak, D. D. 2300,7067
Sundareshan, Malur K.; et al. 12307
Tarr, David G. (4603)
Thathachar, M. A. L.; et al. 12307
Vostrý, Zdeněk 12308
Voznjuk, L. F. 4779
Wonham, W. M.; et al. 7063
Wu, S. H.; et al. 9791
Zames, G.; et al. (7039)
Analytic methods for the study of the solutions of nonlinear differential equations 4779
Calculus of variations and control theory (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1975; dedicated to Laurence Chisholm Young on the occasion of his 70th birthday) 14844

93Exx Stochastic systems and control

(Wets, Roger J.-B.) (*14026)
Modeling identification (*14026)
Optimization (*14026)
Stochastic systems: modeling, identification and optimization, I (Proc. Sympos., Univ. Kentucky, Lexington, Ky., 1975) (*14026)

93E05 *Stochastic games, stochastic differential games*

Bagchi, Arunabha 14845
Čelišvili, R. A. 9793
Friedman, Avner 4780
Schreuer, Mynda 4781
Techniques of optimization (Fourth IFIP Colloq. Optimization Techniques, 1971) 4780

93E10 *Estimation problems (filtering, prediction, data smoothing, system identification)*

Ahmed, N. U. (1600)
Ahmed, N. U.; et al. 14846
Aihara, Shin'ichi; et al. 12323
Akaike, Hirotugu (11691),14847
Akashi, Hajime; et al. (9777)

93E10 *Continued*

Allam, M. F.; et al. 14848
Baženov, L. G.; et al. 12309
Beneš, V. E. 4782
Bierman, Gerald J. 14850
Box, George E. P.; et al. 7068
Chow, Gregory C. (9633)
Curtain, Ruth F. 12310
Deeming, T. J. (1687)
Defalque, B.; et al. 7069
Desai, Uday B.; et al. 4792
Dupač, Václav; et al. (14269)
Evans, Alan G. 12311
Fishman, Philip M.; et al. 4794
Fiske, Philip H.; et al. 4783
Friedland, Bernard 12312
Fujishige, Satoru; et al. 2301
Fukao, Takeshi 7070
Fuller, A. T. 9794
Funahashi, Y.; et al. 14851
Georganas, N. D.; et al. 14846
Gersch, W.; et al. 2302
Gevers, M.; et al. 7069
Hawkes, R. M.; et al. 4784
Heĭsin, V. E. (1537)
Herget, Charles J.; et al. 4785
Installé, M.; et al. 7069
Ivanov, Vladimir V.; et al. (14269)
Jakovlev, V. P.; et al. 9801
Johnson, C. Richard, Jr.; et al. 9808
Kailath, Thomas; et al. 4787,12313,12314
Kazakov, I. E. *2303
Kikkawa, Sho 7071,9795
Knopov, P. S.; et al. 12309
Korn, I. 9796
Kozeev, V. A. 7072
Krementulo, Ju. V.; et al. 9801
Kučera, Vladimír 2304
Kumamoto, Hiromitsu; et al. (9777)
Lainiotis, Demetrios G. 9797-9800
Larimore, Michael G.; et al. 9808
Laughton, M. A.; et al. 14848
Lazarjan, V. A.; et al. 9801
Lee, Chio Hsiao; et al. 4785
Lindquist, Anders 9802
Linton, T. D.; et al. 9805
Liu, R. S.-Z.; et al. 2302
Ljung, L.; et al. 12313,12314
Ljung, Lennart 9803
MacGregor, John F.; et al. 7068
Madan, B. B.; et al. 12315
Mahalanabis, A. K.; et al. 12315
Maltz, F. H. 12316
Martin, W. C.; et al. 4786
McCool, John M.; et al. 9808
Mendel, Jerry M. 14849
(Mendel, Jerry M.) 14850
Moore, J. B.; et al. 4784
Moose, Paul H.; et al. 2306
Morf, Martin; et al. 4787
Morris, Joel M. 7073
Nagata, Motoyasu; et al. 2305
Nakamura, K.; et al. 14851
Neuburger, Edgar *12317
Nosač, V. V. 4788
Nose, Kazuo; et al. (9777)
Obotnin, A. N. 4789
Ohmatsu, S.; et al. 9807
Omatu, S.; et al. 7076
Pantev, N. 12318
Papantoni-Kazakos, P. (8966),12319
Parzen, Emanuel (9022)
Pastrick, Harold L.; et al. 14852
Pervozvanskiĭ, A. A.; et al. 4790
Pfaffelhuber, Ernst 9804
Prasad, R. M.; et al. 12320
Priemer, R.; et al. (11785)
Rastrigins, L. *7074
Red'ko, S. F.; et al. 9801
Root, William L.; et al. 4783
Rowland, James R.; et al. 14852
Sagara, Setsuo; et al. 2308
Sahgal, R.; et al. 7075
Samaniego, Francisco J. 4791
Sanders, C. W.; et al. 9805
Sankaran, V. (12297)
(Sātyanarayana, N.) 14846
Sawaragi, Yoshikazu; et al. 2301,2305
Sawicki, Janusz 12321
Scharf, Louis L.; et al. 2306
Schreiber, Helmut 14853
Sea, Ronald G.; et al. 4793
Shiraiwa, Masayuki; et al. 12323
Sidhu, Gursharan S.; et al. 4792
Singer, Robert A.; et al. 4793
Sinha, A. K.; et al. 12320
Sirisena, H. R. 2307
Širjaev, A. N. (8837)
Sklansky, Jack; et al. 7078
Smirnov, I. N.; et al. 4790
Smith, Patrick L. 14854
Snyder, Donald L.; et al. 4794
Söderström, T. 12322
Soeda, T.; et al. 7076,9807
Sosulin, Ju. G. 4795
Spal, J. 14855
(Srinath, M. D.) 14846
Stamm, J. C.; et al. (11785)
Stubberud, A. R.; et al. 4786
Sugisaka, Masanori; et al. 2308
Sunahara, Yoshifumi; et al. 12323
Suzuki, Hiroshi 2309
Tacker, E. C.; et al. 9805
Taylor, Fred J. 9806
Tomita, Y.; et al. 7076,9807
Trunk, Gerard V. 12324
Tzafestas, S. G. 12325
Usbeck, Gerhard 7077
Uškalov, V. F.; et al. 9801
Varaiya, Pravin 2310
Vostrý, Zdeněk 12326
Wassel, Gustav N.; et al. 7078
Webb, R. P.; et al. 7075
Widrow, Bernard; et al. 9808
Youssef, Hussein M. (8973)
Bibliography:
Identification and estimation in econometric systems (9633)
Statistical model identification (11691)
Stochastic approximation (14269)
Certain questions on simulation and systems control 4788
Collection: Adaptive systems 7078,9808
Control theory, numerical methods and computer systems modelling (Internat. Sympos., IRIA LABORIA, Rocquencourt, 1974) 2310
Estimation theory (Special issue of Information Sci.) 9797,9798
Proceedings of the Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) 12311
Progress in statistics (European Meeting of Statisticians, Budapest, 1972) (8837)
Systems identification and time-series analysis (9022,9633,11691),14847

93E15 *Stochastic stability*

Aeyels, D.; et al. 7081
Blankenship, Gilmer L. 9809
Friedman, Menahem; et al. 9810
Ghozati, Seyed-Ali; et al. 12329
Gopalsamy, K. 9811
Harris, Christopher J. 12327
Hata, Shiro; et al. 7079,7080
Lee, Jong Sen; et al. (10769)
Morozan, Toader 12328
Nazaroff, Gregory J. 9812
Rootenberg, Jacob; et al. 12329
Sagirov, Peter S. (4227)
Shibata, Hiroshi; et al. 7079,7080
Snyders, J.; et al. 14856
Wedig, W. 4796
Weiss, Leonard; et al. (10769)
Willems, J. L.; et al. 7081,9813
Willems, Jacques L. 12330
Willems, Jan C.; et al. 9813
Wonham, W. M.; et al. 14856
Yavin, Yaakov; et al. 9810
Ordinary differential equations: 1971 NRL-MRC Conference (10769)
Stability of stochastic dynamical systems (Proc. Internat. Sympos., Univ. Warwick, Coventry, 1972) (4227),4796, 12327,12328,12330

93E20 *Optimal stochastic control (continuous parameter)*

Ahmed, N. U.; et al. 9814
Akulenko, L. D.; et al. 4797
Al'breht, E. I. 7082
André, C.; et al. 9815
(Athans, M.) 9820
Athans, Michael; et al. 12331,14858
Baklan, V. V. 9816
Baklan, V. V.; et al. 9817
Bar-Shalom, Yaakov; et al. 9821
Berkovič, E. M. 14857
Brémaud, P. 4798
Bubnicki, Zdzisław (6911)
Caglayan, Alper K.; et al. 2311
Choi, Lin L.; et al. 14861
Chong, Chee Yee; et al. 14858
Deyst, John; et al. 7086
Elliott, Robert J. 14859
Engelbert, H.-J. (11527)
Farlay, G.; et al. 9815
Gilman, Alfred S.; et al. 7083
Halyo, Nesim; et al. 2311
Hata, S.; et al. 2313
Himmelberg, C. J.; et al. (13016)
Itakura, H.; et al. 12333
Jacobson, D. H. 4799
Jacobson, David H.; et al. 7086
Johnson, T. L.; et al. 9819
Jones, W. E.; et al. (2334)
Kazakov, I. E. 4800
Kolmanovskiĭ, V. B. 2312,7084
Kolmanovskiĭ, V. B.; et al. 4797
Kramer, Leslie C.; et al. 12331
Kushner, Harold J. 9818
Kwakernaak, Huibert 14860
Mamaev, D. D. 7085
Mancougian, M. N.; et al. (6280)
Miyahara, Yoshio 12332
Nishikawa, Yoshikazu; et al. 12333
Omatu, S.; et al. 2313
Platzman, L. K.; et al. 9819
Rao, A. N. V.; et al. (6280)
Rhodes, Ian B.; et al. 7083
Safonov, M. V. 12334
Sannomiya, N.; et al. 12333
Saperstone, Stephen H. 2314
Sasai, Hitoshi 7047
Shibata, H.; et al. 2313
Smith, W.; et al. (2334)
Speyer, Jason L.; et al. 7086
Streibel, Charlotte *2315
Sworder, David D. 12335
Sworder, David D.; et al. 14861
Sysoev, L. P. (2198)
Teo, K. L.; et al. 9814
Tse, Edison 9820
Tse, Edison; et al. 9821
Tsokos, C. P.; et al. (6280)
Van Vleck, F. S.; et al. (13016)
Vasil'ev, V. E. 12336
Warfield, Virginia M. 4801
Witsenhausen, Hans S. 12237
Zuev, L. A.; et al. 9817
Collection: Adaptive systems 9821,12335
Methods for the solution of boundary value and inverse problems of heat conduction 14857
Proceedings of the International Congress of Mathematicians (Vancouver, B. C., 1974), Vol. 2 9818
Theory of random processes, No. 4 9816,9817

93E25 *Computational methods*

Bertran, Miguel S.; et al. 14862
Bierman, Gerald J. 12338
Gavin, Tom; et al. 9822
Kushner, Harold J.; et al. 9822
Larsen, Hugh 7088
(Lopresti, P. V.) 7088
Lopresti, Philip V.; et al. 7087
Papoulis, Athanasios; et al. 14862
(Suri, H. L.) 7088
Suri, Hira L.; et al. 7087

93E99 *None of the above, but in this section*

Aleksandrov, Ju. A.; et al. 7089
Haber, R.; et al. 12339
Hetthéssy, J.; et al. 12339
Jancevic, A. A.; et al. 7089
Keviczky, L.; et al. 12339
Kistner, A. (5571)
Kleinman, David L. 9823
Sagirov, P. (5572)
Taylor, James H. 9824
Automatic and remote control III (Proc. Third Congr. Internat. Federation Automatic Control, London, 1966) 12301
Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Göttingen, 1975) (5571,5572)

94—XX INFORMATION AND COMMUNICATION, CIRCUITS, AUTOMATA (For papers in pattern recognition, linguistics and formal languages, see 68A30, 68A45.)

Bär, Gunter (2190)
(Mihaĭlov, A. I.) (*9914)
Bibliography: Information science (*9914)
Information science, Vol. 1 (*9914)
Itogi Nauki i Tehniki (*9914)
Terminology of information science (*9914)

94-01 *Elementary exposition (collegiate level)*

Harris, R. W.; et al. *12340
Ledwidge, T. J.; et al. *12340
Meschkowski, Herbert (*4881)

94-02 *Advanced exposition (research surveys, etc.)*

van Cleemput, William M. *7090
(Nowak, Krzysztof) (*3778)
Wong, Eugene (*3778)
Bibliography: Computer aided design of digital systems *7090

94-04 *Explicit machine computation and programs (not the theory of computation or programming)*

Celigorov, N. A.; et al. (14353)
Nussbaumer, H. J. 7091
Serkov, V. I.; et al. (14353)

94-06 *Collections of papers; proceedings of conferences*

(Akuškiĭ, I. Ja.) *2316
(Amerbaev, V. M.) *2316
(Černyĭ, D. E.) *9826
(Chan, Shu Park) *9825
(Fu, K. S.) (*6535)
(Kovalev, I. S.) *7092
(Krineckiĭ, I. I.) *9827
(Puhov, G. E.) *9828
(Spivak, M. A.) *9826
Annual Asilomar Conference on Circuits, Systems, and Computers, Ninth (Pacific Grove, Calif., 1975) *9825
Annual IEEE Symposium on Switching and Automata Theory, 14th (Univ. Iowa, Iowa City, Iowa, 1973) (*4884)
Asilomar Conference on Circuits, Systems, and Computers, Ninth Annual (Pacific Grove, Calif., 1975) *9825
Automata, No. 1 *9826
Automata theory (*4884)
Automation *7092
Coding theory and information modeling, No. 2 *2316
Computer systems *9825
Computer technology *7092
Cybernetics in marine transportation, No. 4 *9827
Electronic mathematical simulation and optimization of processes (Proc. Res. Sem., Kiev, 1975) *9828
Hawaii International Conference on Systems Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) (*9124)
Hawaii International Conference on Systems Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) (*9125)
IEEE Symposium on Switching and Automata Theory, 14th Annual (Univ. Iowa, Iowa City, Iowa, 1973) (*4884)
Information modeling *2316
Japan-U.S. Seminar on Learning Process in Control Systems (Nagoya, 1970) (*6535)
Machine learning (*6535)
New elements of systems of automation, remote control and computer technology, No. 2 *7092
Optimization *9828
Pattern recognition and machine learning (Proc. Japan-U.S. Sem. Learning Process in Control Systems, Nagoya, 1970) (*6535)
Proceedings of the Hawaii International Conference on System Sciences, Seventh (Univ. Hawaii, Honolulu, Hawaii, 1974) (*9124)
Proceedings of the Hawaii International Conference on Systems Sciences, Ninth (Univ. Hawaii, Honolulu, Hawaii, 1976) (*9125)
Remote control *7092
Simulation *9828
Switching and automata theory (*4884)
Symposium on Switching and Automata Theory, 14th Annual IEEE (Univ. Iowa, Iowa City, Iowa, 1973) (*4884)
System sciences (*9124,*9125)

94A05 *Communication theory* [*See also* 60J30.]

Adoul, Jean-Pierre A. 7093
Ahmed, N.; et al. 12347
Benedetto, S.; et al. 2317
Beutler, Frederick J. 4802
Biglieri, E.; et al. 2317
(Bilinskiĭ, I. Ja.) *14866
Bretault, P. 12341
Cambanis, Stamatis; et al. 4807
Chan, Oliver W. C.; et al. (1577)
Chandrasekaran, B. 4803
Čheidze, I. M.; et al. 7095
Csiszár, I. 14863
Daffara, R.; et al. 2317
Dalec'kiĭ, Ju. L.; et al. (11478)
Ehrenstrasser, Gottfried *7094
Farmer, C. 4804
Fellbaum, Klaus; et al. 4809
Filinov, V. N.; et al. 7098
Fredricsson, Staffan A. 2318
Fujihashi, Chugo; et al. 12342
Geĭhman, L. M.; et al. (4564)
Goldman, Joel 2319
Gopinath, B.; et al. 2320
Haratišvili, N. G.; et al. 7095
Hawkes, R. M.; et al. (4784)
Higgins, J. R. 4805
Jury, Eliahu I.; et al. (1577)
Klemm, Richard A. 4806
Kohanskiĭ, L. E. 12343
Krasnyĭ, L. G.; et al. (11478)
Kurshan, R. P.; et al. 2320
Lorenc, Aivar A. (4865)
Lui, Ming-Chuan C.; et al. (1512)
Madan, B. B.; et al. (12315)
Mahalanabis, A. K.; et al. (12315)
Maqusi, M. 7096
Masry, Elias; et al. (1512),4807
McDonnell, M. J. 7097
Medvedev, V. A.; et al. 7098
Mehta, F. C. 4808
Meyer-Brötz, Günter; et al. 4809
Moore, J. B.; et al. (4784)
Murza, L. P. 9829
Nagashima, Hideyo; et al. 12342
Narasimhan, M. A.; et al. 12347
Nardizzi, Louis R.; et al. 7100
Necula, Maria-Ana 14864
Odekov, O. A.; et al. (4564)
Oertel, Lothar; et al. 4809
Oleĭnikov, B. I.; et al. 7098
Pearl, Judea 12344,12345
Pollard, J. M. 7099
Ptickin, V. A. 12346
Pyt'ev, Ju. P. (4213)
Rao, K. R.; et al. 12347
Sakaguchi, Minoru 9830
Schürmann, Jürgen; et al. 4809
Šiljak, D. D. (2300)
Sosulin, Ju. G. (4795)
Sourrouille, Lucien 14865
Štatland, B. S.; et al. (11478)
Stepanov, B. M.; et al. 7098
Stokely, Ernest M.; et al. 7100
Varoutas, Panos P.; et al. 7100
Vasov, O. K.; et al. (4564)
Yuen, Chung Kwong 7101,12348
Abstracts of papers presented at the Conference on Methods and Means of Signal Transformation (Riga, 1976) *14866
Methods and means of signal transformation *14866
New elements of systems of automation, remote control and computer technology, No. 2 12343,12346
Proceedings of the Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) 12347

94A10 *Coding theory*

Aaltonen, Matti; et al. 9836
Azumi, Saburo; et al. 7102
Berlekamp, E. R.; et al. (285)
(Berlekamp, E. R.) (286)
Biglieri, Ezio; et al. 7103,9831
Bitner, James R.; et al. 12349
Blake, Ian F.; et al. *2321,9842
Bojarinov, I. M. 14867
Bojarinov, I. M.; et al. 12350
Broué, Michel 2322
Budihardjo, Peter S.; et al. 2323
Camion, P.; et al. 12351
Carvajal, Raul 4810
Cesari, Yves 14868
Chen, Chin Long 12352
Chen, Chin Long; et al. 9844
Crimmins, Thomas R. 9832
Currie, R.; et al. 7108
Dadaev, Ju. G. 12353
Delsarte, P. *4811
De Luca, Aldo 7104
Deza, M.; et al. 12351
Dillon, J. F.; et al. (286)
Dodunekov, S. M. 7105
Driessen, L. M. H. E.; et al. 7106
Ehrlich, Gideon; et al. 12349
Elia, Michele; et al. 7103,9831
Frederix, G. H. M.; et al. 7106
Fredricksen, H. M.; et al. (285)
(Fredricksen, H. M.) (286)
Fujiwara, Chikato; et al. 4812
Fukada, Minoru; et al. 9835
Gleason, Andrew M. 12354
Goppa, V. D. 7107
Grodal, Birgit 12355
(Gruško, I. I.) *4811
Guevara, E.; et al. 7108
Hammond, P. (2540)
Hammond, P.; et al. (2539)
Heise, Werner 12356
Helleseth, Tor 9833
Jelffs, M. W. 12357
Jelinek, Frederick 4813
Kabatjanskiĭ, G. A.; et al. 12350
Kaneko, Toshinobu; et al. 9838
Kasami, Tadao; et al. 7102
Kipsidze, Z. Š. 12358
Kirkorov, N. I.; et al. 12362
Lassez, J. L. 9834
Lee, Lin Nan 2324
Levin, L. A. 2325
Lewis, David J. H.; et al. 9835
Lindström, Kauko; et al. 9836
van Lint, J. H. 7109
van Lint, J. H.; et al. 7106
Longo, Guiseppe (2335)
Mallows, C. L.; et al. 2326
Mandelbaum, David M. 9837
Mark, Jon W.; et al. 2323
Mazo, J. E. 4814
Miyakawa, Hiroshi; et al. 9838
Miyata, Masachika 14869
Morris, R. A.; et al. (286)
Mullin, Ronald C.; et al. *2321
Neumann, Peter G.; et al. 9839
Ng, Wai Hung 9840
Nishida, Fujio; et al. 7111
Obrosov, I. I.; et al. 12362
Patel, A. M. 9841
(Pearl, J.) 12348
Piret, Philippe 4815
Proto, R. C.; et al. (285)
(Proto, R. C.) (286)
Rahman, Mushfiqur; et al. 9842
Rao, Thammavarapu R. N.; et al. 9839
Redinbo, G. Robert; et al. 7112
Reingold, Edward M.; et al. 12349
Restivo, Antonio 2327
Rissanen, J. J. 12359
Samoĭlenko, Stanislav I. 4816
Sarwate, D. V. 14870a-b
Schnorr, Claus Peter *2328
Sharma, Bhu Dev 12360
Shiozaki, Akira; et al. 7111
Shiva, S. G. S.; et al. 7108
Sloane, N. J. A. 9843,12361
Sloane, N. J. A.; et al. 2326
Smith, D. H.; et al. (2539)
Smith, Stephen A. (12372)
Søreng, Jan 4817
Staiger, Ludwig 4818
Suvorov, N. P.; et al. 2330
Suvorova, I. G.; et al. 2330
Tenengol'c, G. M.; et al. 7110
van Tilborg, Henricus Carolus Adrianus *2329
Trofimov, I. B.; et al. 12362
Uzdemir, A. P. 14871
Ward, Harold N. 4819
Warren, William T.; et al. 9844
Wolf, Gary A.; et al. 7112
Yamashita, Kazumi; et al. 4812
Zaderenko, I. D.; et al. 2330
Zaĭcev, V. M.; et al. 12362
Zinov'ev, V. A. 12363
(Zinov'ev, V. A.) *4811
Zograbjan, E. P. 14872a-b
Automata, languages and programming (Second Colloq., Univ. Saarbrücken, Saarbrücken, 1974) 14868
Comptes Rendus des Journées Mathématiques de la Société Mathématique de France (Univ. Sci. Tech. Languedoc, Montpellier, 1974) 2322
Computers in algebra and number theory 7109
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 4810
New elements of systems of automation, remote control and computer technology, No. 2 12362
Questions of computational mathematics (A collection dedicated to the memory of Mel'bar Barnabovič Gagua) 12358

94A15 *Information theory* [*See also* 62B10.]

Abusev, R. A. 9845
Ahlswede, Rudolf; et al. 12364
Barnes, John L. 2331
Berger, Toby 2332
Bergmans, Patrick P. 9846
Bertoluzza, Carlo 9847
Bertoluzza, Carlo; et al. 12365

94A15 *Continued*

Bol'šev, A. I.; et al. (6340)
Cheng, M. C. 4820
Darőczy, Z. 9848
Davis, Charles R.; et al. 12366
Diderrich, George T. 9849
Duncan, George T. 9850
Ebanks, Bruce R. 2333
Gács, Péter; et al. 12364
Gorskiĭ, Ju. M. (14880)
Hellman, Martin E.; et al. 12366
Jones, W. E.; et al. 2334
Kaminger, F. P. 7113
Kannappan, Pl.; et al. 2337,(8063)
Katona, Gyula O. H.; et al. 9851
Lin'kov, Ju. N. 4821
Lom, R. S.; et al. (6340)
Longo, Giuseppe 2335
McGuire, C. B. 12367
Mitjugov, V. V. (12069)
Mittal, D. P. 4822
Moriconi, Franco 12368
Nemetz, Tibor O. H.; et al. 9851
Omura, Jim K.; et al. 9853
Oswald, J. 12369a-b
Pearl, Judea (9154)
Purcaru, Ion 2336
Rathie, P. N.; et al. 2337,(8063)
Rizzi, Bruno 12370
Rubin, Izhak 14873
Schneider, Michel; et al. 12365
Sempi, Carlo 12371
Skoog, Ronald A.; et al. (8141)
Slepian, David; et al. 9852
Smith, Stephen A. 12372
Smith, W.; et al. 2334
Solev, V. N. (1362)
Suvorov, N. P.; et al. (2330)
Suvorova, I. G.; et al. (2330)
Tan, Harry H. 14874
Ulrey, Michael L. 4823
Vasicek, Oldrich (8967)
Viterbi, Andrew J.; et al. 9853
Vrănceanu, G. G. (13730)
White, Chelsea C., III 12373
Willems, Jan C.; et al. (8141)
Witsenhausen, H. S. 14875
Wolf, Jack K.; et al. 9852
Zaderenko, I. D.; et al. (2330)
Actes du Congrès International des Mathématiciens (Nice, 1970), Tome 3 12354
Decision and organization (a volume in honor of Jacob Marschak) 12367
Problems: Analysis (in honor of Salomon Bochner, 1969) 2331
Problems in the theory of probability distributions, III (1362)
Proceedings of the Hawaii International Conference on System Sciences, Eighth (Univ. Hawaii, Honolulu, Hawaii, 1975) 12366
Symposium en Quasigroupes et Équations Fonctionnelles (Belgrade-Novi Sad, 1974) 9848
Théories de l'information 12365
Theory of random processes, No. 4 4821

94A20 *Circuits, networks; applications of graph theory and Boolean algebra*

Acar, Cevdet 4824
Afanas'eva, L. G.; et al. (14803)
Aibara, Tsunehiro; et al. 4848
Aleksandrov, E. A. (2255)
Allan, F. J.; et al. 12374,12387
Anderson, Brian D. O.; et al. 4825
Anderson, William N., Jr.; et al. 14876
Anučin, I. A. 12375
Baker, Ronald D. (4999)
Baras, John S.; et al. (4749)
Bastin, D.; et al. 9854
Basu, Dhruba; et al. (9197)
Beccari, C. 4826
Beister, Jochen 4827
Bellert, Stanisław; et al. 7114
Berštein, L. S.; et al. (125)
Birjukova, L. A. 9855
Bitjuckiĭ, V. P.; et al. 12376
Blažkevič, B. I. *4828
Blažkevič, B. I.; et al. 7115
Boari, M.; et al. 7116
Bondy, J. A.; et al. (*117)
Bozojan, Š. E.; et al. 7130
Broussolle, F. 14877
Brown, David P. 4829
Brown, Frank Markham 4830,14878
Bruno, J.; et al. (2550)
Butler, Jon T. 4831
Cain, R. G.; et al. 12384
Čapenko, V. P.; et al. 12386
Carter, William C.; et al. 2338
Čerepov, V. A.; et al. (9196)
Chakrabarti, K.; et al. 4832
Chua, Leon O.; et al. 2339,12377
Čistov, V. P.; et al. 12376
Claasen, Theo A. C. M.; et al. (12295)
van Cleemput, William M. (*7090)
Corajan, O. G.; et al. (14803)
Cotellessa, R. F.; et al. 4838
Coy, Wolfgang 4833
D'Amato, L. P.; et al. 7117
Daniels, Richard W. *9856
Davis, Wayne A.; et al. 9859
Dębosz, Jerzy A.; et al. (165)
Deczky, Andrew G. 7118
Delsarte, Philippe; et al. 7119
Denisenko, O. S.; et al. 12398
Dervişoğlu, Ahmet; et al. 7120
DesMarais, P.; et al. 2340
Desoer, Charles A. 2341
Desoer, Charles A.; et al. 7120
Dewilde, Patrick; et al. (4749)
Dias, Francisco J. O. 9857
Dimo, P. 9858
Ecker, Klaus; et al. (12474)
(Edwards, C. R.) 12379
Edwards, Colin R. 12378
Even, S.; et al. 12380
Faradžev, R. G. 14879
Fay, G.; et al. (2254)
Filonik, S. A.; et al. 7121
Fornasini, Ettore; et al. 2342
Fridrich, Marek; et al. 9859
Friedman, Arthur D. 9860
Friedman, Arthur D.; et al. *12381
Friedman, George J. (7013)
Frosini, Graziano 7122
Gabov, Harold N.; et al. (14427)
(Ghausi, Mohammed S.) *12402
Gilbert, Edgar N. 12382
Gilezan, Koriolan (287)
Giloi, W.; et al. *9861
Girard, E.; et al. 9854
Gorskiĭ, Ju. M. 14880
Gray, F. Gail; et al. 7133
Green, D. H.; et al. 2343
Gusev, È. A. 7123
Gustavson, F. G. 4834
Ha, T. T. 9862
Hajj, I. N. 2344
Hallbauer, Georg 4835
Handkiewicz, Andrzej; et al. (165)
Harper, L. H.; et al. (4184)
Hayes, John P. 4836,12383
Heatley, A. H.; et al. 2345
Hirgiĭ, N. I.; et al. (5037)
Hoffner, Charles W., II; et al. 7134
Holland, Paul W.; et al. (12252)
Hong, S. J.; et al. 12384
Hotz, Günter (*1688)
Hrapcenko, V. M. 14881
Hsieh, W. N.; et al. (4184)
Ibarra, Oscar H.; et al. 9863
Itai, A.; et al. 12380
Jadina, V. F.; et al. 12398
Jayasri, Totadri; et al. (9197)
Jeng, Bor-Ren A.; et al. 7128
Kajitani, Yoji; et al. 12385
Kaljaev, A. V. 9864
Kalnberzin', A. Ja.; et al. 12386
Kameda, T.; et al. 12374,12387
Kamionka-Mikuła, Halina 9865
Karpenko, L. D.; et al. (14803)
Každan, A. È.; et al. (9196)
Kel'mans, A. K. 7124
Kerntopf, Pawel 2346
Kinoshita, Yasuyoshi 12388
Klar, Rainer (*9159)
Kodandapani, K. L.; et al. 14885
Kohavi, Z.; et al. 7125
Kolenička, Jan 9866
Kolesov, Ju. S. (10764)
Kolp, Otto 9867
Kolp, Otto; et al. 4832
Komarov, Ju. M.; et al. 4837
Komissarčuk, A. A.; et al. 7115
Koplowitz, J.; et al. (4769)
Koren, I.; et al. 7125
Kovalin, Ja. V.; et al. 12376
Krieger, M.; et al. 2340
Krishnan, K. R.; et al. (4769),4838
Kureĭčik, V. M.; et al. (125)
Labunec, V. G.; et al. 4841
Lam, Y. F.; et al. 12377
Lamagna, Edmund A.; et al. 4842
Lang, Tomás 9869
Lavit, Christine 9870
Lawson, J. Douglas; et al. 2345
Lee, P. A. 4843
Leinhardt, Samuel; et al. (12252)
Lerda, Francesco *12389
Levin, V. I. 12390
Li, Chong Uk; et al. 14882
Li, Sok Hŭi 9871
Li, Sŏk Hŭi; et al. 14882
Liebig, H.; et al. *9861
Lien, Y. Edmund 7126
Lipskiĭ, V. B.; et al. 4837
Lisjak, V. V.; et al. (125)
Losev, V. V. 12391
Lozkin, S. A. 9872
Maheshwari, Shachindra N.; et al. (14427)
Makarčuk, M. M. 7127
Maki, Gary K.; et al. 7128
Maksimov, E. M.; et al. 7110
Maksimović, N. G. (2506),*7129
Mamatov, Ju. A. 2347,4844,4845
Marchesini, Giovanni; et al. 2342
Marrett, R.; et al. 9873
Martelli, Alberto 12392
Matsumoto, T. 12393
McCarthy, Charles E.; et al. 2338
McCluskey, Edward J.; et al. 2355
McPherson, J. D.; et al. 2339
Mecklenbräuker, Wolfgang F. G.; et al. (12295)
Melihov, A. N.; et al. (125)
Menon, Premachandran R.; et al. *12381
Meo, Angelo R. 2348
Metze, Gernot; et al. 9882
Mitev, W.; et al. (12475)
Morettin, P. A. 4839
Mukai, Yuzo; et al. 9874
Mukundan, R.; et al. 4838
Muller, David E.; et al. (6555)
Murakami, Kenji; et al. 4848
Murty, U. S. R.; et al. (*117)
Mustafa, G. M. 14883
Mykkeltveit, Johannes 9875
Natali, A.; et al. 7116
Newcomb, R. W.; et al. 4825
Nieminen, Juhani 2349
Nishizeki, Takeo; et al. (10084)
Nozaki, A. 9876
Nussbaumer, H. J. 12394
O, Chŏng Hyŏn 9877
Obuhov, V. È.; et al. 12395
Ostapko, D. L.; et al. 12384
Osterweil, Leon J.; et al. (14427)
Page, J. A.; et al. (4770)
Paterson, M. S.; et al. 2350
Paul, Wolfgang J. 4840
Pavlov, V. V.; et al. 12395
Peek, J. B. H.; et al. (12295)
Perreault, D. A.; et al. 4838
Petrosjan, A. V.; et al. 7130
Petunin, Ju. I.; et al. (14803)
Pfaffelhuber, Ernst 2351
Pippenger, Nicholas; et al. 7131
Poljakov, V. È.; et al. 7132
Popovici, Constantin P. 12396
Posthoff, Ch.; et al. (12475)
Pradhan, Dhiraj K. 9879
Pradhan, Dhiraj K.; et al. 9878
Prasad, B. A.; et al. 7133
Preparata, Franco P.; et al. (6555)
Prigozy, Stephen; et al. 9880
Quisquater, Jean-Jacques; et al. 7119
Rault, J.-C.; et al. 9854
Reddy, Sudhakar M.; et al. 9878
Red'kin, N. P. 9881
Reinschke, Kurt; et al. (2270)
Reynolds, Donald; et al. 14876
Robinson, John P.; et al. 7134
Roe, P. H.; et al. 9873
Rosenstiehl, P.; et al. 9854
Roussopoulos, Nicholas D. 12397
Rudeanu, Sergiu 2352
Rumatowski, Karol 14884
Rutelli, Giovanni 4846
Rutkas, A. G.; et al. (5037)
Rybarczyk, Andrzej; et al. (165)
Sahni, Sartaj K.; et al. 9863
Saito, Nobuji; et al. (10084)
Sakaki, Hiroshi 2353
Sakurai, Hidekazu; et al. 12385
Sapiecha, Krzysztof 2354
Sathe, Sharad T. 7135
Savage, J. E.; et al. (4184),4842
Sawin, Dwight H., III; et al. 7128
Schmidt, Douglas C.; et al. 9882
Schnorr, C. P. (1714,4190),9883
Schütt, Dieter; et al. (12474)
Schwarz, Peter; et al. (2270)
Seth, Sharad C.; et al. 14885
Shedletsky, John J.; et al. 2355
Shensa, M. J. 4847
Sitnikov, O. P.; et al. 4841
Skljarevič, A. N.; et al. 12398
Solncev, S. V.; et al. 7121
Souesme, P.; et al. 9854
Spencer Brown, G.; et al. (*4892)
Stear, E. B.; et al. (4770)
Straube, Bernd 2356
(Swamy, M. N. S.) *12403
Takacs, D. V.; et al. (2254)
Takamatsu, Yuzo; et al. 4848
Tarasov, V. V. 14886
Taylor, I. S.; et al. 2343
Thayse, A. 4849
Tohma, Yoshihiro 4850
Tohma, Yoshihiro; et al. 9874
Toida, S.; et al. 12374,12387
Tolčan, A. Ja. 4851
Traczyk, Tadeusz; et al. 7114
Trapp, George; et al. 14876
Trocenko, A. A.; et al. 7132
Turcat, Claudine; et al. 9884
Udalov, V. I. 12399
Ugol'nikov, A. B. 9885
Uhlig, D. 14887
Usynin, V. I. 12400
Valiant, L. G.; et al. 2350,7131
Verdillon, André; et al. 9884
Vilfan, Bostjan 4852
Vondrček, Prokop (142)
Waller, D. A. 12401

94A20 *Continued*

Weinberg, L.; et al. (2500),9880
Wu, Felix F. 7136
Yang, Chao Chih 7137
Yang, Shih Chien; et al. 7138
Yau, Stephen S.; et al. 7138
Yuen, C.-K. 12379
Zemanian, A. H. 2357,4853
Zemanian, A. H.; et al. 7117
Annual Symposium on Switching and Automata Theory, 15th (1974) 2346,4842
Bibliography: Computer aided design of digital systems (*7090)
Circuits and systems theory *12403
Control and dynamic systems: advances in theory and applications, Vol. 11 (4770)
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 12392
Large scale networks and systems *12402
Mathematical simulation and the theory of electrical circuits, No. 12 12400
Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, 1975) *12403
Networks and systems *12402
Proceedings of the Manitoba Conference on Numerical Mathematics, Fifth (Univ. Manitoba, Winnipeg, Man., 1975) 2345
Proceedings of the Midwest Symposium on Circuits and Systems, Eighteenth (Concordia Univ., Montreal, Que., 1975) *12403
Questions of statistics and of the control of random processes (14803)
Recent trends in system theory (4749),4825,12393
Special issue on fault-tolerant computing, 1976 2338,2355,4836,9857,9884
Special section on testing (14427)
Structure and methodological recommendations for the creation of systems of automated design of discrete devices (Proc. Sem., Budapest, 1973) 9866
Systems theory *12403
Theory of finite automata and its applications, No. 3 12375,12386, 12390,12398,12399
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) 12380
Time-valued Boolean functions and their applications 7132

94A25 *Sequential machines*

Bandyopadhyay, A. K.; et al. 14888
Basu, M. S.; et al. 14888
Bojanov, K.; et al. 9889
Chattopadhyay, D. K.; et al. 14888
Chaudhry, Muhammad Anwar 9886
Chen, Chi Tsong 4854
Choudhury, A. K.; et al. 14888
Frosini, G.; et al. 9887
Gerace, G. B.; et al. 9887
Grodzki, Z. 2358
Grzymala-Busse, Jerzy W. 4855
Hoppe, J. 9888
Offir, Joseph D. 9736
Ohyama, Yasuyoshi; et al. 7139
Palit, A.; et al. 14888
Sakai, Ryozo; et al. 7139
Sen Gupta, A.; et al. 14888
Tohma, Yoshihiro; et al. 7139
Velickov, T.; et al. 9889
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) 9887

94A30 *Automata, general* [*See also* 02F10,18B20, 68A25.]

Alešin, S. V. 4856
Al'pin, Ju. A.; et al. 2359
Amoroso, Serafino; et al. 4857
Arbib, Michael A.; et al. (2753)
Barzdiņš, J. (9989)
Bavel, Zamir 2360
Bogomolov, A. M.; et al. *4858
Buharaev, R. G.; et al. 2359
Burkhard, Hans-Dieter 4859,9890
Chang, Lena; et al. (4992)
Deussen, P. (4191)
Dididze, C. E. 2361
Dittrich, Gisbert *9891
Döpp, Klemens 7140
Duske, J. (10461)
Epstein, Irivng J.; et al. 4857
Flanders, Harley 2362
Gal'perin, G. A. 4860
Gécseg, F. 9892
Giersich, Werner 12404
Give'on, Y. (4192)
Golunkov, Ju. V. 7141
Gorbatov, V. A. 4861
Gordon, Henry G. 4862
Grunskiĭ, I. S.; et al. *4858
Hemmerling, Armin 4863
Hoehnke, Hans-Jürgen (6560)
Honda, Namio; et al. 7142
Hoppe, J. 4864
Khang, N. Q.; et al. (441)
Kimura, Masayuki; et al. 4866
Kojima, Masaaki; et al. 7142
Kurmĭtis, A. *2363
Lorenc, Aivar A. 4865
(Louvish, D.) *2363
Manes, Ernest G.; et al. (2753)
Markwald, Werner 14889
Maruoka, Akira; et al. 4866
Masunaga, Yoshifumi; et al. 9893
Meyer, John F. (7305)
Mihaĭlov, G. I.; et al. (6561)
Morgan, Charles G. 4867
Moroz, D. Z.; et al. 12405
Morozov, B. V.; et al. 12405
Nawrotzki, Kurt; et al. 2364
Noguchi, Shoichi; et al. 9893
Norris, Eugene M. 14890
Nowakowski, Ryszard 4868
Oizumi, Juro; et al. 9893
Parr, F. N. 4869
Peák, I.; et al. (441)
Phan Dinh Diệu 2365
Poe, Arthur; et al. (4992)
Reischer, C.; et al. 7143
Reusch, Bernd 2366
Richter, Dieter; et al. 2364
Ryscov, I. K. 2367
Seitz, Charles L. 9894
Shibata, Yukio 9895
Simovici, D. A.; et al. 7143
Simovici, Dan A. 14891
Solncev, S. V. 14892
Speranskiĭ, D. V.; et al. *4858
Takahashi, Hideyuki 14893
Tal', A. A.; et al. (6561)
Tanaka, Genjiro 4870
Trofimcuk, R. N. (4196)
Tully, Edward J. 11866
Turakainen, Paavo 2368
Vasjukevič, V. O. 12406
Walter, Hermann, K.-G. 12407
Yaku, Takeo 4871
Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschungsinst., Oberwolfach, 1969) (4191)
Category theory applied to computation and control (Proc. First Internat. Sympos., San Francisco, Calif., 1974) (6560)
Graph theory and computing (7305)
Mathematical foundations of computer science (Proc. Sympos. and Summer School, Štrbské Pleso, 1973) (441),9892
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Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, Sixth (Florida Atlantic Univ., Boca Raton, Fla., 1975) (4992)
Recent trends in system theory 2362
Theory of finite automata and its applications, No. 3 12405,12406
Theory of machines and computations (Proc. Internat. Sympos., Technion, Haifa, 1971) 2360,2366,(4192),9894

94A35 *Probabilistic automata*

Afanas'ev, Ju. M.; et al. 12408
Booth, Taylor L. 9896
Buharaev, R. G. 9897
Burštein, L. V.; et al. 7144
Chandessais, Charles A. 2369
Dauscha, Wolfgang 4872
Giorgadze, A. H.; et al. 7144
Isomichi, Yoshinori 14894
Jarušek, V. E. (4207)
Kitahashi, Tadahiro; et al. 7147
Krysanov, A. I.; et al. 12408
Łąski, J. 4873
Letunov, Ju. P.; et al. 12408
Lorencs, A. 12409,12410
(Małuszyński, Jan) *4876
(Ostrowski, Roman) *4876
Ozeki, Kazuhiko 4874
Pospelov, D. A. *4875,*4867
Suškov, B. G. 7145
Šůstal, Jiří 4877,7146
Takeuchi, Akihiro; et al. 7147
Tanaka, Kohkichi; et al. 7147
Turakainen, Paavo 9898
Information processing 74 (Proc. IFIP Congress, Stockholm, 1974) 9896
Theory of finite automata and its applications, No. 3 12410

94A99 *None of the above, but in this section*

Karčevskiĭ, V. P. 12411
Cybernetics in marine transportation, No. 4 12411

ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity. An asterisk indicates that the journal has not previously been listed.

Abacus. Abacus. The Journal of the Mathematical Association of Nigeria. (Ibadan)

Abh. Akad. Wiss. Göttingen Math.-Phys. Kl. Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)

Abh. Braunschweig. Wiss. Gesellsch. Abhandlungen der Braunschweigischen Wissenschaftlichen Gesellschaft. (Braunschweig)

Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech. Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)

Abh. Math. Sem. Univ. Hamburg. Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)

Abh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl. Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig)

Abstracts Bulgarian Sci. Lit. Math. Phys. Astronom. Geophys. Geodes. Bulgarian Academy of Sciences. Centre of Scientific Information and Documentation. Abstracts of Bulgarian Scientific Literature. Mathematics, Physics, Astronomy, Geophysics, Geodesy. (Sofia)

Acad. Roy. Belg. Bull. Cl. Sci. Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Académie. Mededelingen van de Klasse der Wetenschappen. (Brussels)

Acad. Roy. Belg. Cl. Sci. Mem. Coll. in-8°. Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandelingen. Verzameling in-8°. (Brussels)

Acad. Serbe Sci. Arts Glas. Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade)

Accad. Naz. Sci. Lett. Arti Modena Atti Mem. Accademia Nazionale di Scienze Lettere et Arti. Modena. Atti e Memorie. (Modena)

ACM Trans. Math. Software. Association for Computing Machinery. Transactions on Mathematical Software. (New York)

Acta Acad. Åbo. Ser. B. Acta Academiae Åboensis. Ser. B. Mathematica et Physica. Matematik-Naturvetenskaper-Teknik. (Åbo=Turku)

Acta Acad. Paedagog. Civitate Pécs Ser. 6 Math. Phys. Chem. Tech. Acta Academiae Paedagogicae in Civitate Pécs. Seria 6. Mathematica–Physica–Chemica–Technica. (Pécs)

Acta Arith. Polska Akademia Nauk. Instytut Matematyczny. Acta Arithmetica. (Warsaw)

Acta Astronaut. Acta Astronautica. Journal of the International Academy of Astronautics. (Elmsford, N. Y.)

Acta Astronom. Sinica. Acta Astronomica Sinica. (Peking)

Acta Cl. Compostelana. Acta Cientifica Compostelana. (Santiago de Compostela)

Acta Cl. Indica. Acta Ciencia Indica. (Meerut)

Acta Cl. Venezolana. Acta Cientifica Venezolana. Asociación Venezolana para el Avance de la Ciencia. (Caracas)

Acta Cybernet. Acta Cybernetica. (Szeged)

Acta Fac. Rerum Natur. Univ. Comenian. Math. Acta Facultatis Rerum Naturalium Universitatis Comenianae. Mathematica. (Bratislava)

**Acta Hist. Rerum Natur. Nec Non Tech.* Acta Historiae Rerum Naturalium Nec Non Technicarum. (Prague) [54, no. 6]

Acta Informat. Acta Informatica. (Berlin)

Acta Math. Acta Mathematica. (Uppsala)

Acta Math. Acad. Sci. Hungar. Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)

Acta Math. Sinica. Acta Mathematica Sinica. (Peking) (Translated as: *Chinese Math.–Acta*)

**Acta Math. Vietnam.* Acta Mathematica Vietnamica. (Hanoi) (Formerly: *Acta Sci. Vietnam.*) [53, no. 5]

Acta Mech. Acta Mechanica. (Vienna)

Acta Mech. Sinica (New York). Acta Mechanica Sinica. (New York) (Translation of *Acta Mech. Sinica (Peking)*)

Acta Mech. Sinica (Peking). Acta Mechanica Sinica. (Peking) (Translated as: *Acta Mech. Sinica (New York)*)

Acta Mexicana Cl. Tecn. Instituto Politécnico Nacional. Acta Mexicana de Ciencia y Tecnología. (Mexico City)

Acta Philos. Fenn. Acta Philosophica Fennica. (Helsinki)

Acta Phys. Acad. Sci. Hungar. Acta Physica Academiae Scientiarum Hungaricae. (Budapest)

Acta Phys. Austriaca. Acta Physica Austriaca. (Vienna)

Acta Phys. Polon. A. Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. A. (Warsaw)

Acta Phys. Polon. B. Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. B. (Warsaw)

Acta Phys. Sinica. Acta Physica Sinica. (Peking) (Translated as: *Chinese J. Phys.*)

Acta Phys. Slovaca. Acta Physica Slovaca. (Bratislava)

Acta Polytech. Scand. Math. and Comput. Mach. Ser. Acta Polytechnica Scandinavica. Mathematics and Computing Machinery Series. (Stockholm) (Continued as: *Acta Polytech. Scand. Math. Comput. Sci. Ser.*) [54, no. 6]

**Acta Polytech. Scand. Math. Comput. Sci. Ser.* Acta Polytechnica Scandinavica. Mathematics and Computer Science Series. (Helsinki) (Formerly: *Acta Polytech. Scand. Math. and Comput. Mach. Ser.*) [54, no. 6]

Acta Sci. Math. (Szeged). Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)

Acta Sci. Natur. Univ. Pekinensis. Acta Scientiarum Naturalium Universitatis Pekinensis. (Peking)

Acta Sci. Vietnam. Acta Scientiarum Vietnamicarum. Sectio Scientiarum Mathematicarum et Physicarum. (Hanoi) (Continued as: *Acta Math. Vietnam.*) [53, no. 5]

Acta Tech. Acad. Sci. Hungar. Acta Technica Academiae Scientiarum Hungaricae. (Budapest)

Acta Tech. ČSAV. Acta Technica. Československá Akademie Věd. (Prague)

Acta Univ. Carolinae–Math. et Phys. Acta Universitatis Carolinae. Mathematica et Physica. (Prague)

Acta Univ. Oulu. Ser. A Sci. Rerum Natur. Math. Acta Universitatis Ouluensis. Series A. Scientiae Rerum Naturalium. Mathematica. (Oulu)

Acta Univ. Tamper. Ser. A. Acta Universitatis Tampereensis. Series A. (Helsinki)

Acta Univ. Wratislav. Acta Universitatis Wratislaviensis. (Wrocław)

Actualités Sci. Indust. Actualités Scientifiques et Industrielles. (Paris)

Acustica. Acustica. International Journal of Acoustics. (Stuttgart)

**Adapt. Sistemy Avtomat. Upravlenija.* Kievskiĭ Politehničeskiĭ Institut. Adaptivnye Sistemy Avtomatičeskogo Upravlenija. (Kiev) [53, no. 4]

Advances in Appl. Probability. Advances in Applied Probability. (Sheffield)

Advances in Math. Advances in Mathematics. (New York)

Aequationes Math. Aequationes Mathematicae. (Basel)

AEÜ–Arch. Elektron. Übertragungstech. AEÜ. Archiv fur Elektronik und Übertragungstechnik. (Stuttgart)

AIAA J. AIAA Journal. American Institute of Aeronautics and Astronautics. (Easton, Pa.)

AIChEJ. The American Institute of Chemical Engineers. Journal. (New York)

AIIE Trans. American Institute of Industrial Engineers. Transactions. (Atlanta, Ga.)

Ajatus. Ajatus. Suomen Filosofisen Yhdistyksen Vuosikirja. Yearbook of the Philosophical Society of Finland. (Helsinki)

Akad. Nauk Armjan. SSR Dokl. Akademija Nauk Armjanskoĭ SSR. Doklady. (Erevan)

Akad. Nauk Azerbaĭdžan. SSR Dokl. Akademija Nauk Azerbaĭdžanskoĭ SSR. Doklady. (Baku)

Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze. Akademija Nauk Gruzinskoĭ SSR. Trudy Tbilisskogo Matematičeskogo Instituta im. A. M. Razmadze. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.*

Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst. Akademija Nauk Kazahskoĭ SSR. Trudy Astrofizičeskogo Instituta. (Alma-Ata)

Akad. Nauk Kazah. SSR Trudy Inst. Mat. i Meh. Akademija Nauk Kazahskoĭ SSR. Trudy Instituta Matematiki i Mehaniki. (Alma-Ata)

Akad. Nauk SSSR Trudy Jakutsk. Filial. Ser. Fiz. Akademija Nauk SSSR. Trudy Jakutskogo Filiala. Serija Fizičeskaja. (Moscow)

Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjelj. Prirod. Mat. Nauka. Akademija Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Prirodnih i Matematičkih Nauka. (Sarajevo)

Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjelj. Tehn. Nauka. Akademija Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Tehnickih Nauka. (Sarajevo)

Akad. Wiss. Lit. Mainz Abh. Math.-Natur. Kl. Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)

Akust. Ž. Akademija Nauk SSSR. Akustičeskiĭ Žurnal. (Moscow) (Translated as: *Soviet Physics Acoust.*)

Al. Culukidzis Saḫelob. Khutṗaisi. Saḫelmc. Ped. Inst. Šromebi. Al. Culukidzis Saḫelobis Khutṗaisis Saḫelmcipho Pedagogiuri Institutis Šromebi. (Kutaisi)

Algebra and Logic. Algebra and Logic. (New York) (Translation of *Algebra i Logika*)

Algebra i Logika. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Algebra i Logika. (Novosibirsk) (Translated as: *Algebra and Logic*)

Algebra Universalis. Algebra Universalis. (Basel)

Algoritmy i Algoritm. Jazyki. Vyčislitel'nyĭ Centr Akademii Nauk SSSR. Algoritmy i Algoritmičeskie Jazyki. (Moscow)

Algorytmy. Algorytmy. Prace Instytutu Maszyn Matematycznych Polskiej Akademii Nauk. (Warsaw)

Aligarh Bull. Math. The Aligarh Bulletin of Mathematics. (Aligarh)

Alkalmaz. Mat. Lapok. Alkalmazott Matematikai Lapok. (Budapest) (Formerly: *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.*)

Allgemein. Statist. Arch. Allgemeines Statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)

Alma-Atin. Gos. Ped. Inst. Učen. Zap. Alma-Atinskiĭ Gosudarstvennyĭ Pedgogičeskiĭ Institut im. Abaja. Učenye Zapiski. (Alma-Ata) (May also appear as: *Kazah. Gos. Ped. Inst. Učen. Zap.*)

Alta Frequenza. Alta Frequenza. Rivista di Elettronica e Telecomunicazioni della Associazione Elettrotecnica ed Elettronica Italiana. (Milan)

Amer. J. Math. American Journal of Mathematics. (Baltimore, Md.)

Amer. J. Phys. American Journal of Physics. (New York)

Amer. Math. Monthly. The American Mathematical Monthly. (Buffalo, N. Y.)

Amer. Math. Soc. Transl. American Mathematical Society Translations. (Providence, R. I.)

Amer. Sci. American Scientist. (New Haven, Conn.)

Amer. Statist. The American Statistician. (Washington, D. C.)

AMR. Applied Mechanics Reviews. (New York)

An. Acad. Brasil. Ci. Anais da Academia Brasileira de Ciências. (Rio de Janeiro)

An. Fac. Ci. Univ. Porto. Anais de Faculdade de Ciências. Universidade do Porto. (Porto)

An. Inst. Mat. Univ. Nac. Autónoma México. Anales del Instituto de Matemáticas. Universidad Nacional Autónoma de México. (Mexico City)

An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. Analele Ştiinţifice ale Universităţii "Al. I. Cuza" din Iaşi. Seria Nouă. Secţiunea I a Matematică. (Iaşi)

An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I b Fiz. Universităţii "Al. I. Cuza" din Iaşi. Analele Ştiinţifice. Secţiunea I b. Fizica. Seria Nouă. (Iaşi)

An. Univ. Bucureşti Şti. Natur. Analele Universităţii Bucureşti. Ştiinţele Naturii. (Bucharest)

An. Univ. Craiova Ser. a IV-a. Anale Universitatea Craiova Seria a IV-a. (Craiova) (Continued as: *An. Univ. Craiova Ser. a V-a*)

* *An. Univ. Craiova Ser. a V-a.* Craiova. Universitatea. Anale. Seria a V-a. (Craiova) (Formerly: *An. Univ. Craiova Ser. a-IV-a*) [53, no. 3]

An. Univ. Timişoara Ser. Şti. Fiz.-Chim. Analele Universităţii din Timişoara. Seria Ştiinţe Fizice-Chimice. (Timişoara)

An. Univ. Timişoara Ser. Şti. Mat. Analele Universităţii din Timişoara. Seria Ştiinţe Matematice. (Timişoara)

Anal. Math. Analysis Mathematica. (Budapest)

Ann. Acad. Sci. Fenn. Ser. A I. Suomalaisen Tiedeakatemian Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A I. Mathematica. (Helsinki)

Ann. Acad. Sci. Fenn. Ser. A I Math. Dissertationes. Annales Academiae Scientiarum Fennicae. Series A I. Mathematica Dissertationes. (Helsinki)

Ann. Acad. Sci. Fenn. Ser. A VI. Suomalaisen Tiedeakatemian Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A VI. Physica. (Helsinki)

Ann. École Nat. Sup. Méc. Nantes. Annales. École Nationale Supérieure de Mécanique. (Nantes)

Ann. Fac. Sci. Univ. Nat. Zaïre (Kinshasa) Sect. Math.-Phys. Université Nationale du Zaïre. Faculté des Sciences. Annales. Section Mathématique-Physique. (Kinshasa)

Ann. Human Genetics. Annals of Human Genetics. (London)

Ann. I.N.S.É.É. Ministère de l'Économie et des Finances. Institut National de la Statistique et des Études Economiques. Annales de l'I.N.S.É.É. (Paris)

Ann. Inst. Fourier (Grenoble). Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)

Ann. Inst. H. Poincaré Sect. A. Annales de l'Institut Henri Poincaré. Section A. Physique Théorique. (Paris)

Ann. Inst. H. Poincaré Sect. B. Annales de l'Institut Henri Poincaré. Section B. Calcul des Probabilités et Statistique. (Paris)

Ann. Inst. Statist. Math. Annals of the Institute of Statistical Mathematics. (Tokyo

Ann. Japan Assoc. Philos. Sci. Annals of the Japan Association for Philosophy of Science. (Tokyo)

Ann. Mat. Pura Appl. Annali di Matematica Pura ed Applicata. (Bologna)

Ann. Math. Logic. Annals of Mathematical Logic. (Amsterdam)

Ann. of Math. Annals of Mathematics. (Princeton, N. J.)

Ann. of Sci. Annals of Science. (London)

Ann. Physics. Annals of Physics. (New York)

Ann. Physik. Annalen der Physik. (Leipzig)

Ann. Polon. Math. Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)

Ann. Probability. The Annals of Probability. (San Francisco, Calif.)

Ann. Sci. École Norm. Sup. Annales Scientifiques de l'École Normale Supérieure. (Paris)

Ann. Sci. Univ. Besançon Math. Annales Scientifiques de l'Université de Besançon. Mathématiques. (Besançon)

Ann. Sci. Univ. Besançon Méc. Phys. Théor. Annales Scientifiques de l'Université de Besançon. Mécanique et Physique Théorique. (Besançon)

Ann. Sci. Univ. Clermont. Math. Annales Scientifiques de l'Université de Clermont. Série Mathématique. (Clermont-Ferrand)

Ann. Scuola Norm. Sup. Pisa Cl. Sci. Annali della Scuola Normale Superiore di Pisa. Classe di Scienze. (Pisa)

Ann. Scuola Norm. Sup. Pisa Sci. Fis. Mat. Annali Scuola Normale Superiore de Pisa. Scienze. Fisiche e Matematiche. (Pisa)

Ann. Soc. Math. Polon. Ser. I Comment. Math. Prace Mat. See *Comment. Math. Prace Mat.*

Ann. Soc. Math. Polon. Ser. II Wiadom. Mat. See *Wiadom. Mat.*

Ann. Soc. Math. Polon. Ser. III Mat. Stos. See *Mat. Stos.*

Ann. Soc. Math. Polon. Ser. IV Fund. Informat. See *Fund. Informat.*

Ann. Soc. Sci. Bruxelles Sér. I. Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)

Ann. Statist. The Annals of Statistics. (San Francisco, Calif.)

Ann. Syst. Res. Annals of Systems Research. (Leiden)

Ann. Univ. Ferrara Sez. VII. Annali dell'Università di Ferrara. Nuovo Serie. Sezione VII. Scienze Matematiche. (Ferrara)

Ann. Univ. Madagascar Sér. Sci. Nature Math. Annales de l'Université de Madagascar. Série Sciences de la Nature et Mathématiques. (Tananarive)

Ann. Univ. Mariae Curie-Skłodowska Sect. A. Annales Universitatis Mariae Curie-Skłodowska. Sectio A. Mathematica. (Lublin)

Ann. Univ. Sarav. Math.-Natur. Fak. Annales Universitatis Saraviensis. Mathematisch-Naturwissenschaftliche Fakultät. (Berlin)

Ann. Univ. Sci. Budapest. Eötvös Sect. Math. Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)

Ann. Univ. Turku. Ser. A I. Annales Universitatis Turkuensis. Series A. I. Astronomica-Chemica-Physica-Mathematica. (Turku)

Annuaire Univ. Sofia Fac. Math. Godišnik na Sofiiskija Universitet Matematičeski Fakultet. Annuaire de l'Université de Sofia. Faculté de Mathématiques. (Sofia) (Continued as: *Annuaire Univ. Sofia Fac. Math. Mec.*)

* *Annuaire Univ. Sofia Fac. Math. Méc.* Annuaire de l'Université de Sofia. Faculté de Sofia. Faculté de Mathématiques et Mécanique. (Sofia) (Formerly: *Annuaire Univ. Sofia Fac. Math.*) (Also listed as: *Godišnik Sofiiskija Univ. Fak. Mat. Meh.*) [53, no. 3]

Annuaire Univ. Sofia Fac. Phys. Godišnik na Sofiskija Universitet. Fizičeski Fakultet. Annuaire de l'Université de Sofia. Faculté de Physique. (Sofia)

* *Annual Rep. Fac. Ed. Iwate Univ.* Iwate University. Faculty of Education. Annual Report. (Kakuzanwaki) (Formerly: *Annual Rep. Fac. Ed. Univ. Iwate*) [54, no. 1]

Annual Rep. Fac. Ed. Univ. Iwate. Annual Report of the Faculty of Education. University of Iwate. (Kakuzanwaki) (Continued as: *Annual Rep. Fac. Ed. Iwate Univ.*) [54, no. 1]

Anz. Österreich. Akad. Wiss. Math.-Naturwiss. Kl. Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Anzeiger. (Vienna)

Apl. Mat. Československá Akademie Věd. Aplikace Matematiky. (Prague)

Appl. Math. Comput. Applied Mathematics and Computation. (New York)

* *Appl. Math. Modelling.* Applied Mathematical Modelling. (Guildford) [53, no. 4]

Appl. Math. Notes. Applied Mathematics Notes. (Montreal, Que.)

Appl. Math. Optim. Applied Mathematics and Optimization. An International Journal. (New York)

Appl. Mech. Rev. Applied Mechanics Reviews. (New York) (Sometimes abbreviated as *AMR* in the text of *Math. Reviews*)

Appl. Sci. Res. Applied Scientific Research. (The Hague)

Applicable Anal. Applicable Analysis. An International Journal. (New York)

* *Arabian J. Sci. Engrg.* Arabian Journal for Science and Engineering. (Dhahram) [54, no. 3]

Årbok Univ. Bergen Mat.-Natur. Ser. Årbok for Universitetet i Bergen. Matematisk-Naturvidenskapelig Serie. (Bergen)

Arch. Automat. i Telemech. Polska Akademia Nauk. Komitet Automatyki i Cybernetyki Technicznej. Archiwum Automatyki i Telemechaniki. (Warsaw)

Arch. Elek. Übertr. Archiv für Elektronik und Übertragungstechnik. Electronics and Communication. (Stuttgart) (Continued as: *AEÜ–Arch. Elektron. Übertragungstech.*)

Arch. Elektrotech. (Warsaw). Komitet Elektrotechniki. Komitet Elektroniki i Telekommunikacji Polskiej Akademii Nauk. Archiwum Elektrotechniki. (Warsaw)

Arch. History Exact Sci. Archive for History of Exact Sciences. (Berlin)

Arch. Internat. Histoire Sci. Archives Internationales d'Histoire des Sciences. (Paris)

Arch. Math. (Basel). Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel)

Arch. Math. (Brno). Spisy Přírodovědecké Fakulty University J. E. Purkyně v Brně. Archivum Mathematicum. (Brno)

Arch. Math. Logik Grundlagenforsch. Archiv für Mathematische Logik und Grundlagenforschung. (Stuttgart)

Arch. Mech. (Arch. Mech. Stos.) Institute of Fundamental Technical Research. Polish Academy of Sciences. Archives of Mechanics (Archiwum Mechaniki Stosowanej). (Warsaw)

Arch. Rational Mech. Anal. Archive for Rational Mechanics and Analysis. (Berlin)

Archimede. Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)

Ark. Mat. Arkiv för Matematik. (Stockholm) (Continued in: *Astronom. and Astrophys.*)

Arkhimedes. Arkhimedes. Suomen Fyysikkoseura–Finlands Fysikerforening r.y. Suomen Matemaattinen Yhdistys–Finlands Matematiska Förening r.y. (Helsinki)

Armjan. Gos. Ped. Inst. Sb. Naučn. Trud. Ser. Fiz.-Mat. Armjanskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. H. Abovjana. Sbornik Naučnyh Trudov. Serija Fiziko-Matematičeskaja. (Erevan)

Arquivo Inst. Gulbenkian Ci. A Estud. Mat. Fis.-Mat. Arquivo do Instituto Gulbenkian de Ciência. A. Estudos Matemáticos e Físico-Matemáticos. (Lisbon)

* *Ars Combinatoria.* Ars Combinatoria. (Waterloo, Ont.) [53, no. 3]

Artificial Intelligence. Artificial Intelligence. An International Journal. (Amsterdam)

Astrofizika. Akademija Nauk Armjanskoĭ SSR. Astrofizika. (Erevan) (Translated as: *Astrophysics*)

Astronom. and Astrophys. Astronomy and Astrophysics. (Berlin)

Astronom. Astrophys. Suppl. Ser. Astronomy & Astrophysics. Supplement Series. (Lausanne)

Astronom. J. The Astronomical Journal. (New Haven, Conn.)

Astronom. Nachr. Astronomische Nachrichten. (Berlin)

Astronom. Ž. Akademija Nauk SSSR. Astronomičeskiĭ Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)

Astrophys. and Space Sci. Astrophysics and Space Science. (Dordrecht)

Astrophys. J. The Astrophysical Journal. (Chicago, Ill.)

Astrophysics. Astrophysics. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)

Atti Accad. Ligure Sci. Lett. Atti della Accademia Ligure di Scienze e Lettere. (Genoa)

Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I^a. Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I^a. Matematica, Meccanica, Astronomia, Geodesia e Geofisica. (Rome)

Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur. Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)

Atti Accad. Peloritana Pericolanti Cl. Sci. Fis. Mat. Natur. Accademia Peloritana dei Pericolanti. Classe Scienze, Fisiche, Matematiche e Naturali. Atti. (Messina)

Atti Accad. Sci. Fis. Mat. Napoli. Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)

Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend. Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)

Atti Accad. Sci. Lett. Arti Palermo Parte I. Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima. Scienze. (Palermo)

Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur. Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)

Atti Sem. Mat. Fis. Univ. Modena. Atti del Seminario Matematico e Fisico dell'Universita di Modena. (Modena)

Atti Soc. Peloritana Sci. Fis. Mat. Natur. Atti della Società Peloritana di Scienze Fisiche Matematiche e Naturali. (Messina)

Austral. Comput. J. The Australian Computer Society. The Australian Computer Journal. (Chippendale)

Austral. J. Phys. Australian Journal of Physics. (Melbourne)

Austral. J. Statist. The Australian Journal of Statistics. (Sydney)

* *Austral. Math. Soc. Gaz.* The Australian Mathematical Society. Gazette. (Kensington) [54, no. 4]

Automat. Control and Computer Sci. Automatic Control and Computer Sciences. (New York) (Translation of *Avtomat. i Vyčisl. Tehn. (Riga)*)

Automat. Document. and Math. Linguistics. Automatic Documentation and Mathematical Linguistics. (New York) (Translation of *Naučn.-Tehn. Informacija (VINITI) Ser.* 2. *Informacionnye Processy i Sistemy*)

* *Automat. Programming.* Automatic Programming. (Oxford) [53, no. 5]

Automat. Remote Control. Automation and Remote Control. A translation of *Avtomatika i Telemehanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemeh.*)

Automatic Control Theory Appl. Automatic Control Theory and Applications. (Calgary, Alta.)

Automatica–J. IFAC. Automatica. The Journal of IFAC. The International Federation of Automatic Control. (Oxford)

Avtomat. i Izčisl. Tehn. Avtomatika i Izčislitelna Tehnika. (Sofia)

Avtomat. i Telemeh. Akademija Nauk SSSR. Avtomatika i Telemehanika. (Moscow) (Translated as: *Automat. Remote Control*)

Avtomat. i Vyčisl. Tehn. (Riga). Akademija Nauk Latviĭskoĭ SSR. Avtomatika i Vyčislitel'naja Tehnika. (Riga) (Translated as: *Automat. Control and Computer Sci.*)

* *Avtomat. Sistemy Upravlen. (LGU).* Leningradskiĭ Gosudarstvennyĭ Universitet. Avtomatizirovannye Sistemy Upravlenija. (Leningrad) [54, no. 3]

* *Avtomat. Sistemy Upravlenija i Pribory Avtomat.* Avtomatizirovannye Sistemy Upravlenija i Pribory Avtomatiki. (Kharkov) [53, no. 4]

Avtomatika. Akademija Nauk Ukraĭns'koĭ RSR. Institut Elektrotehniki. Avtomatika. (Kiev) (Translated as: *Soviet Automat. Control*)

Avtometrija. Avtometrija. Akademija Nauk SSSR. Sibirskoe Otdelenie. (Novosibirsk)

Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk. Azerbaĭdžanskiĭ Gosudarstvennyĭ Universitet im. S. M. Kirova. Učenye Zapiski. Serija Fiziko-Matematičeskih Nauk. (Baku)

Balašov. Gos. Ped. Inst. Učen. Zap. Balašovkiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Balašov)

Bangabasi College Mag. Bangabasi College Magazine. (Calcutta)

Bangabasi Morning College Mag. Bangabasi Morning College Magazine. (Calcutta)

Barnaul. Gos. Ped. Inst. Učen. Zap. Barnaul'skiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Barnaul)

Baškir. Gos. Univ. Učen. Zap. Baškirskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Ufa)

Bayer. Akad. Wiss. Math.-Natur. Kl. Abh. Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)

Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B. Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)

Beijing Daxue Xuebao Ziran Kexue. See *Acta Sci. Natur. Univ. Pekinensis.*

Beitrage Anal. Beiträge zur Analysis. (Berlin)

Beiträge Numer. Math. Beiträge zur Numerischen Mathematik. (Berlin)

Bell J. Econom. The Bell Journal of Economics. (New York)

Bell System Tech. J. The Bell System Technical Journal. (New York)

* *Ber. Math.-Statist. Sekt. Forschungszentrum Graz.* Graz. Forschungszentrum. Mathematisch-Statistische Sektion. Berichte. (Graz) [54, no. 1]

* *Ber. Univ. Jyväskylä Math. Inst.* Jyväskylä. Universität. Mathematisches Institut. Bericht. (Jyväskylä) [53, no. 3]

Biol. Cybernet. Biological Cybernetics. (Berlin)

* *Biometrical J.* Biometrical Journal. (Berlin) (Formerly: *Biometrische Z.*) [54, no. 6]

Biometrics. Biometrics. Journal of the Biometric Society. (Raleigh, N. C.)

Biometrika. Biometrika. (London)

Biometrische Z. Biometrische Zeitschrift. (Berlin) (Continued as: *Biometrical J.*) [54, no. 6]

Biul. Lubel. Towarz. Nauk. Mat. Fiz. Chem. Biuletyn Lubelskiego Towarzystwa Naukowego. Matematyka. Fizyka. Chemia. (Lublin)

Biul. Wojsk. Akad. Tech. Biuletyn Wojskowej Akademii Technicznej im. Jarosława Dąbrowskiego. (Warsaw)

Bjull. Inst. Teoret. Astronom. Akademija Nauk Sojuza Sovetskih Socialističeskih Respublik. Bjulleten' Instituta Teoretičeskoĭ Astronomii. (Moscow)

Bol. Mat. Boletín de Matemáticas. (Bogotá)

Bol. Mat. Estatíst. Fis. Boletim de Matemática, Estatística e Fiscia. (São Paulo)

Bol. Soc. Brasil. Mat. Boletim da Sociedade Brasileira de Matemática. (Rio de Janeiro)

Bol. Soc. Mat. Méxicana. Boletín de la Sociedad Matemática Méxicana. (Mexico City)

Boll. Un. Mat. Ital. Bolletino della Unione Matematica Italiana (Bologna) (Continued as: *Boll. Un. Mat. Ital. A* and *Boll. Un. Mat. Ital. B*)

**Boll. Un. Mat. Ital. A.* Unione Matematica Italiana. Bolletino. A. (Bologna) (Formerly: *Boll. Un. Mat. Ital.*) [53, no. 3]

**Boll. Un. Mat. Ital. B.* Unione Matematica Italiana. Bolletino. B. (Bologna) (Formerly: *Boll. Un. Mat. Ital.*) [53, no. 3]

Bonn. Math. Schr. Bonner Mathematische Schriften. (Bonn)

British J. Hist. Sci. British Society for the History of Science. British Journal for the History of Science. (London)

British J. Math. Statist. Psychology. The British Journal of Mathematical and Statistical Psychology. (London)

British J. Philos. Sci. The British Journal for the Philosophy of Science. (London)

Bul. Akad. Ştiince RSS Moldoven. Buletinul Akademieĭ de Ştiince a RSS Moldoveneşt'. (Kishinev) Also listed as: *Izv. Akad. Nauk Moldav. SSR.*

Bul. Inst. Politehn. Bucureşti. Buletinul Institutului Politehnic Bucureşti. (Bucharest)

Bul. Inst. Politehn. Iaşi. Buletinul Institutului Politehnic din Iaşi. Serie Nouă. (Iaşi)

Bul. Şti. Inst. Politehn. Cluj. Buletinul Ştiinţific al Institutului Politehnic din Cluj. (Cluj) (Continued as: *Bul. Şti. Inst. Politehn. Cluj Ser. Electromec.* and *Bul. Şti. Inst. Politehn. Cluj Ser. Mec.* and *Bul. Şti. Inst. Politehn. Cluj Ser. Construc.*)

**Bul. Şti. Inst. Politehn. Cluj Ser. Construc.* Institutului Politehnic Cluj. Buletinul Ştiinţific. Seria Construcţii. (Cluj) (Formerly: *Bul. Şti. Inst. Politehn. Cluj*) [53, no. 2]

Bul. Şti. Inst. Politehn. Cluj Ser. Electromec. Buletinul Ştiinţific al Institutului Politehnic Cluj. Seria Electromecanică. (Cluj)

Bul. Şti. Inst. Politehn. Cluj Ser. Mec. Buletinul Ştiinţific al Institutului Politehnic Cluj. Seria Mecanică. (Cluj)

Bul. Şti. Tehn. Inst. Politehn. Timişoara Ser. Mat.-Fiz.-Mec. Teoret. Apl. Buletinul Ştiinţific şi Tehnic al Institutului Politehnic Timişoara. Seria Matematica-Fizika-Mecanica Teoretică şi Aplicată. (Timişoara) (Continued as: *Bul. Sti. Tehn. Inst. Politehn. "Traian Vuia" Timişoara*)

Bul. Şti. Tehn. Inst. Politehn. "Traian Vuia" (Timişoara. Institutului Politehnic "Traian Vuia" Timişoara. Buletinul Ştiintific şi Tehnic. (Timişoara) (Formerly: *Bul. Şti. Tehn. Inst. Politehn. Timişoara Ser. Mat.-Fiz.-Mec. Teoret. Apl.*)

Bul. Univ. Braşov Ser. A Mec. Apl. Buletinul Universităţii din Braşov. Seria A. Mecanică Aplicată Constructii de Masini. (Braşov)

Bul. Univ. Braşov Ser. C Mat. Fiz. Chim. Şti. Natur. Buletinul. Universităţii din Braşov. Seria C. Matematică, Fizică, Chimie, Ştiinte Naturale. (Braşov)

Bul. Univ. Shtetëror Tiranë. Shk. Nat. Buletin Universiteti Shtetëror i Tiranës Fakulteti i Shkencave te Natyrës. (Tirane)

Bulgar. J. Phys. Bulgarian Journal of Physics. (Sofia)

Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys. Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)

Bull. Acad. Polon. Sci. Sér. Sci. Tech. Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Techniques. (Warsaw)

**Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur.* Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles. Bulletin. (Belgrade) (Formerly: *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.*) [53, no. 3]

Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math. Bulletin de l'Académie Serbe des Sciences et des Artes. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade) (Continued as: *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur.*) [53, no. 4]

Bull. Amer. Math. Soc. Bulletin of the American Mathematical Society. (Providence, R. I.)

Bull. Arts. Sci. Div. Univ. Ryukyus Math. Natur. Sci. University of the Ryukyus. Arts & Science Division. Mathematics & Natural Sciences. Bulletin. (Naha) (Continued as: *Bull. Sci. Engrg. Div. Univ. Ryukyus Math. Natur. Sci.*)

Bull. Austral. Math. Soc. Bulletin of the Australian Mathematical Society. (St. Lucia)

Bull. Calcutta Math. Soc. Bulletin of the Calcutta Mathematical Society. (Calcutta)

Bull. Central Res. Lab. O.I.T. Bulletin of the Central Research Laboratory. Osaka Institute of Technology. (Osaka)

Bull. College Sci. (Baghdad). Bulletin of the College of Science. (Baghdad)

Bull. Dept. Gen. Ed. College Sci. Tech. Nihon Univ. Bulletin of Department of General Education. College of Science and Technology. Nihon University. (Narashino)

Bull. Direction Études Recherches Sér. C Math. Informat. Électricité de France. Bulletin de la Direction des Études et Recherches. Série C. Mathématiques. Informatique. (Clamart)

Bull. Fac. Ed. Univ. Kagoshima. Bulletin of the Faculty of Education. University of Kagoshima. (Kagoshima)

Bull. Fac. Ed. Utsunomiya Univ. Sect. 2. Utsunomiya University. Faculty of Education. Section 2. Bulletin. (Utsunomiya)

Bull. Fac. Engrg. Hiroshima Univ. Bulletin of the Faculty of Engineering. Hiroshima University. (Hiroshima)

Bull. Fac. Engrg. Miyazaki Univ. Bulletin of the Faculty of Engineering. Miyazaki University. (Miyazaki)

**Bull. Fac. Sci. Assiut Univ.* Assiut University. Bulletin of the Faculty of Science. (Assiut) [54, no. 4]

**Bull. Fac. Sci. Engrg. Chuo Univ.* Chuo University. Faculty of Science and Engineering. Bulletin. (Tokyo) [54, no. 2]

Bull. Fac. Sci. Ibaraki Univ. Ser. A. Bulletin of the Faculty of Science. Ibaraki University. Series A. Mathematics. (Ibaraki)

Bull. Fukuoka Univ. Ed. III. Bulletin of Fukuoka University of Education. Part III. Natural Sciences. (Fukuoka)

Bull. Géodésique. Bulletin Géodésique. (Paris)

Bull. Gifu College Ed. Bulletin of Gifu College of Eduction. (Gifu)

Bull. Inst. Internat. Statist. Bulletin de l'Institut International de Statistique. (The Hague)

Bull. Inst. Math. Acad. Sinica. Bulletin of the Institute of Mathematics. Academia Sinica. (Taipei)

Bull. Inst. Math. Appl. Bulletin of the Institute of Mathematics and its Applications. (Southend-on-sea)

Bull. JSME. Bulletin of the Japan Society of Mechanical Engineers. (Tokyo)

Bull. Kyoto Univ. Ed. Ser. B. Bulletin of the Kyoto University of Education. Series B. Mathematics and Natural Science. (Kyoto)

Bull. Kyushu Inst. Tech. Math. Natur. Sci. Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)

Bull. London Math. Soc. The Bulletin of the London Mathematical Society. (London)

**Bull. Malaysian Math. Soc.* Malaysian Mathematical Society. Bulletin. (Kuala Lumpur) [53, no. 3]

Bull. Math. Biology. Bulletin of Mathematical Biology. (New York)

Bull. Math. Soc. Sci. Math. R. S. Roumanie. Bulletin Mathématique de la Société des Sciences Mathématiques de la République Socialiste de Roumanie. (Bucharest)

Bull. Math. Statist. Bulletin of Mathematical Statistics. (Fukuoka)

Bull. Nagoya Inst. Tech. Bulletin of Nagoya Institute of Technology. (Nagoya)

Bull. Nara Univ. Ed. Natur. Sci. Bulletin of Nara University of Education. Natural Science. (Nara)

Bull. Sci. Conseil Acad. RSF Yougoslav. Sect. A. Bulletin Scientifique. Conseil des Académies de la RSF de Yougoslavie. Section A. (Zagreb)

Bull. Sci. Engrg. Div. Univ. Ryukyus Math. Natur. Sci. University of the Ryukyus. Science & Engineering Division. Mathematics & Natural Sciences. Bulletin. (Naha) (Formerly: *Bull. Arts. Sci. Div. Univ. Ryukyus Math. Natur. Sci.*)

Bull. Sci. Engrg. Res. Lab. Waseda Univ. Bulletin of Science and Engineering Research Laboratory. Waseda University. (Tokyo)

Bull. Sci. Math. Bulletin des Sciences Mathématiques. (Paris)

Bull. Signal. 110. Centre National de la Recherche Scientifique. Bulletin Signalétique 110. Informatique. Automatique. Recherche Opérationnelle. Gestion. (Paris)

Bull. Soc. Math. Belg. Bulletin de la Société Mathématique de Belgique. (Brussels)

Bull. Soc. Math. France. Bulletin de la Société Mathématique de France. (Paris)

Bull. Soc. Math. Grèce. Bulletin de la Société Mathématique de Grèce. (Athens)

Bull. Soc. Math. Phys. Macédoine. Bulletin de la Société des Mathématiciens et des Physiciens de la République Populaire de Macédoine. Bilten na Društvoto na Matematičarite i Fizičarite od Socialistička Republika Makedonija. (Skopje)

Bull. Soc. Roy. Sci. Liège. Bulletin de la Société Royale des Sciences de Liège. (Liège)

Bull. Soc. Sci. Lettres Łódź. Bulletin de la Société des Sciences et des Lettres de Łódź. (Łódź)

Bull. Tokyo Gakugei Univ. Bulletin of Tokyo Gakugei University. (Tokyo)

Bull. Univ. Osaka Prefecture Ser. A. Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)

Bull. Yamagata Univ. Natur. Sci. Bulletin of the Yamagata University. Natural Science. (Yamagata)

C. R. Acad. Bulgare Sci. Doklady Bolgarskoĭ Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)

C. R. Acad. Sci. Paris Sér. A-B. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries A et B. (Paris)

C. R. Acad. Sci. Paris Vie Académique. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Vie Académique. (Paris)

Cahiers Centre Études Recherche Opér. Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels)

Cahiers Topologie Géom. Différentielle. Cahiers de Topologie et Géometrie Différentielle. (Paris)

Calcolo. Calcolo. (Rome)

Calcutta Statist. Assoc. Bull. Calcutta Statistical Association Bulletin. (Calcutta)

Canad. J. Math. Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto, Ont.)

Canad. J. Phys. Canadian Journal of Physics. (Ottawa, Ont.)

Canad. J. Statist. The Canadian Journal of Statistics. (Montreal, Que.)

Canad. Math. Bull. Canadian Mathematical Bulletin. (Toronto, Ont.)

Caribbean J. Sci. Math. The Caribbean Journal of Science and Mathematics. (St. Thomas)

Časopis Pěst. Mat. Československá Akademie Věd. Časopis Pro Pěstování Matematiky. (Prague)

Čečeno-Ingušk. Gos. Ped. Inst. Učen. Zap. Čečeno-Ingušskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Groznyĭ)

Celestial Mech. Celestial Mechanics. (Dordrecht)

Čeljabinsk. Gos. Ped. Inst. Trudy. Čeljabinskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Trudy. (Chelyabinsk)

Centaurus. Centaurus. (Copenhagen)

Chem. Engrg. J. The Chemical Engineering Journal. An International Journal of Research and Development. (Lausanne)

Chem. Phys. Lett. Chemical Physics Letters. (Amsterdam)

Chinese J. Math. Chinese Journal of Mathematics. (Hsinchu)

Chinese J. Phys. (Peking). Chinese Journal of Physics. Peking. A translation of *Acta Physica Sinica* of the Chinese Academy of Sciences, Peking. (New York) (Translation of *Acta Phys. Sinica*)

Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-b'o. (Academy of Science of the People's Republic of Korea. Bulletin). Cho-sŏn Min-ju-ju-ŭi In-min Kong-hwa-kuk Kwa-hak-wŏn. T'ong-p'o. (Pyong-yang)

Ciencias Ser. 1 Mat. Ciencias. Serie 1. Matemática. (Havana)

Čisl. Metody Meh. Sploŝn. Sredy. Akademija Nauk SSSR. Sibirskoe Otdelenie. Vyčislitel'nyĭ Centr. Čislennye Metody Mehaniki Sploŝnoĭ Sredy. (Novosibirsk)

Čitin. Gos. Ped. Inst. Učen. Zap. Čitinskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Chita)

CL & CL – Comput. Linguist. Comput. Lang. Computational Linguistics and Computer Languages. (Budapest)

Collect. Math. Consejo Superior de Investigaciones Cientificas. Universidad de Barcelona. Collectanea Mathematica. Seminario Matemático de Barcelona. (Barcelona)

Collect. Papers Math. Soc. Wakayama Univ. Collected Papers of the Mathematical Society of Wakayama University. (Wakayama)

Collect. Phenom. Collective Phenomena. An International Journal of Discussion and Speculation. (London)

Colloq. Math. Colloquium Mathematicum. (Warsaw)

Comm. ACM. Communications of the Association for Computing Machinery. (New York)

Comm. Algebra. Communications in Algebra. (New York)

Comm. Dublin Inst. Adv. Studies Ser. A. Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)

Comm. Fac. Sci. Univ. Ankara Sér. A. Communications de la Faculté des Sciences de l'Université d'Ankara. Série A. Mathématiques-Physique-Astronomie. (Ankara)

Comm. Math. Phys. Communications in Mathematical Physics. (Berlin)

Comm. Partial Differential Equations. Communications in Partial Differential Equations. (New York)

Comm. Pure Appl. Math. Communications on Pure and Applied Mathematics. (New York)

Comm. Statist.– Simulation Comput. Communications in Statistics. Simulation and Computation. (New York)

Comm. Statist.– Theory Methods. Communications in Statistics. Theory and Methods. (New York)

Comment. Math. Helv. Commentarii Mathematici Helvetici. (Zurich)

Comment. Math. Prace Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria I. Commentationes Mathematicae. Prace Matematyczne. (Warsaw)

Comment. Math. Univ. Carolinae. Commentationes Mathematicae Universitatis Carolinae. (Prague)

Comment. Math. Univ. St. Paul. Commentarii Mathematici Universitatis Sancti Pauli. (Tokyo)

Compositio Math. Compositio Mathematica. (Groningen)

**Comput. & Fluids.* An International Journal. Computer & Fluids. (New York) (Formerly: *Internat. J. Comput. & Fluids*) [54, no. 6]

Comput. Control Abstr. Computer and Control Abstracts. (New York)

Comput. J. The Computer Journal. (London)

Comput. Lang. Computer Languages. An International Journal. (Oxford)

Comput. Math. Appl. Computers & Mathematics with Applications. An International Journal. (Oxford)

Comput. Methods Appl. Mech. Engrg. Computer Methods in Applied Mechanics and Engineering. (Amsterdam)

**Comput. Networks.* Computer Networks; the international journal of distributed informatique. (Amsterdam) [53, no. 4]

Comput. Surveys. Computing Surveys. ACM. Association for Computing Machinery. (New York)

Computers & Structures. Computers & Structures. (New York)

Computing. Computing. Archiv für Informatik und Numerik. (New York)

Conceptus. Conceptus. Zeitschrift für Philosophie. (Innsbruck)

Confer. Sem. Mat. Univ. Bari. Conferenze del Seminario di Matematica dell'Università di Bari. (Bari)

Control Cybernet. Polish Academy of Sciences. Institute of Applied Cybernetics. Control and Cybernetics. (Warsaw)

Cosmic Res. Cosmic Research. (New York) (Translation of *Kosmičes. Issled.*)

CR. Computing Reviews. (New York)

Current Math. Publ. Current Mathematical Publications. (Providence, R. I.)

Čuvaš. Gos. Ped. Inst. Učen. Zap. Čuvašskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. I. Ja. Jakovleva. Učenye Zapiski. (Cheboksary) (May also appear as: *Čuvaš. Gos. Univ. i. Čuvaš. Gos. Ped. Inst. Učen. Zap.*)

Čuvaš. Gos. Univ. i Čuvaš. Gos. Ped. Inst. Učen. Zap. Čuvašskiĭ Gosudarstvennyĭ Universitet im. I. N. Ul janova. Čuvašskii Gosudarstvennyi Pedagogičeskiĭ Institut im. I. Ja. Jakovleva. Učenye Zapiski. (Cheboksary) (May also appear as: *Čuvaš. Gos. Ped. Inst. Učen. Zap.*)

Cybernetica. Cybernetica. (Namur)

Cybernetics. Cybernetics. (New York) (A translation of *Kibernetika (Kiev)*)

Czechoslovak J. Phys. Čehoslovackaja Akademija Nauk. Čehoslovackiĭ Fizičeskiĭ Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)

Czechoslovak Math. J. Čehoslovackaja Akademija Nauk. Čehoslovackiĭ Matematičeskiĭ Žurnal. Czechoslovak Mathematical Journal. (Prague)

Dagestan. Gos. Univ. Učen. Zap. Dagestanskiĭ Gosudarstvennyĭ Universitet im. V. I. Lenina. Učenye Zapiski. (Makhachkala)

Dal'nevostočn. Gos. Univ. Ucen. Zap. Dal'nevostočnyĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. Serija fiziko-matematičeskih Nauk. (Vladivostok)

Dal'nevostočn. Mat. Sb. Dal'nevostočnyi Matematičeskiĭ Sbornik. Ministerstvo Prosveščenija RSFSR Habarovskiĭ Gosudarstvennyĭ Institut. (Khabarovsk)

Danske Vid. Selsk. Mat.-Fys. Medd. Det Kongelige Danske Videnskabernes Selskab Matematisk-Fysiske Meddelelser. (Copenhagen)

Defence Sci. J. Defence Science Journal. (Delhi)

**Delft Progress Rep. Ser. F.* Delft Progress Report. Series F. Quarterly. (Delft) [54, no. 2]

**Delta (Madison).* Delta. University of Wisconsin. (Madison, Wis.) (Formerly: *Delta (Waukesha)*) [54, no. 1]

Delta (Waukesha). (Delta. Waukesha Mathematical Society. (Waukesha, Wis.) (Continued as: *Delta (Madison)*) [54, no. 1]

Demonstratio Math. Demonstratio Mathematica. (Warsaw)

Denshi Tsushin Gakkai Ronbunshi. See *Electron. Commun. Japan* and *Systems-Computers-Controls.*

Dialogue. Dialogue. Canadian Philosophical Review. Revue Canadienne de Philosophie. (Montreal, Que.)

Differencial'nye Uravnenija. Differencial'nye Uravnenija. (Minsk) (Translated as: *Differential Equations*)

Differencial'nye Uravnenija i Primenen.– Trudy Sem. Processy Optimal. Upravlenija I Sekcija. Institut Fiziki i Matematiki Akademii Nauk Litovskoĭ SSR. Differencial'nye Uravnenija i ih Primenenie. Trudy Respublikanskogo Naučnogo Seminara "Processy Optimal'nogo Upravlenija". I Sekcija. (Vilnius)

**Differencial'nye Uravnenija i Vyčisl. Mat.* Differencial'nye Uravnenija i Vyčislitel'naja Matematika. (Saratov) [53, no. 4]

**Differencial'nye Uravnenija (Rjazan').* (Rjazan. Godudarstvennyĭ Pedagogičeskiĭ Institut. Matematičesky Kafedr. Sbornik Trudov. Differencial'nye Uravnenija. (Ryazan) [54, no. 1]

Differential Equations. Differential Equations. (New York) (Translation of *Differencial'nye Uravnenija*)

Digital Process. Digital Processes. An International Journal on the Theory and Design of Digital Systems. (St. Saphorin)

**Dinamika Sistem.* Gor'kovskiĭ Gosudarstvennyĭ Universitet. Dinamika Sistem. (Gorki) [53, no. 4]

Dinamika Splošn. Sredy. Institut Gidrodinamiki Sibirskogo Otdelenija Akademii Nauk SSSR. Dinamika Splošnoĭ Sredy. (Novosibirsk)

Discrete Math. Discrete Mathematics. (Amsterdam)

Diskret. Analiz. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Diskretnyĭ Analiz. Sbornik Trudov. (Novosibirsk)

Dissertationes Math. (Rozprawy Mat.) Polska Akademia Nauk. Instytut Matematyczny. Dissertationes Mathematicae. Rozprawy Matematyczny. (Warsaw)

Dokl. Akad. Nauk BSSR. Doklady Akademii Nauk BSSR. (Minsk)

Dokl. Akad. Nauk SSSR. Doklady Akademii Nauk SSSR. (Moscow) (Mathematics section translated as: *Soviet Math. Dokl.*; Physics section translated as: *Soviet Physics Dokl.*)

Dokl. Akad. Nauk Tadžik. SSR. Doklady Akademii Nauk Tadžikskoĭ SSR. (Dushanbe)

**Dokl. Akad. Nauk Ukrain. SSR Ser. A.* Akademija Nauk Ukrainskoĭ SSR. Doklady. Serija A. Fiziko–Matematičeskie i Tehničeskie Nauki. (Kiev) (Translation of *Dopovīdī Akad. Nauk Ukraĭn. RSR Ser. A*) [53, no. 4]

Dokl. Akad. Nauk UzSSR. Doklady Akademii Nauk UzSSR. (Tashkent)

**Dopovīdī Akad. Nauk Ukraĭn. RSR Ser. A.* Dopovīdī Akademiĭ Nauk Ukraĭns'koĭ RSR. Serija A. (Kiev) (Russian version: *Dokl. Akad. Nauk Ukrain. SSR Ser. A*) [53, no. 4]

Dopovīdī Akad. Nauk Ukrāin. RSR Ser. B. Dopovīdī Akademiĭ Nauk Ukraĭns'koĭ RSR. Serija B. (Kiev)

Duke Math. J. Duke Mathematical Journal. (Durham, N. C.)

Dušanbin. Gos. Ped. Inst. Učen. Zap. Dušanbinskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. T. G. Ševčenko. Učenye Zapiski. (Dushanbe)

DVT–Dějiny Věd a Techniky. Dějiny Věd a Techniky. Společnost pro Dějiny Věd a Techniky. (Prague)

Econom. Comp. Econom. Cybernet. Stud. Res. Economic Computation and Economic Cybernetics Studies and Research. (Bucharest)

Econometrica. Econometrica. Journal of the Econometric Society. (Chicago, Ill.)

Ed. Stud. Math. Educational Studies in Mathematics. (Dordrecht)

Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim. Eesti NSV Teaduste Akadeemia Füüsika ja Astronoomia Instituudi Uurimused. (Trudy Instituta Fiziki i Astronomii Akademii Nauk Èstonskoĭ SSR) (Tartu) (Continued as: *Eesti NSV Tead. Akad. Füüs. Inst. Uurim.*)

**Eesti NSV Tead. Akad. Füüs. Inst. Uurim.* NSV Teaduste Akadeemia. Füüsika Instituudi Uurimused. Eesti. Akademia Nauk Estonskoi SSR. Institut Fiziki. Trudy. (Tartu) (Formerly: *Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim.*) [53, no. 3]

Eesti NSV Tead. Akad. Tartu Astronoom. Observ. Publ. Eesti NSV Teaduste Akadeemia Tartu Astronoomia Observatooriumi Publikatsioonid. (Tartu)

Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Eesti NSV Teaduste Akadeemia Toimetised. Füüsika-Matemaatika. Izvestija Akademii Nauk Èstonskoĭ SSR. Serija Fizika-Matematika. (Tallin)

Èkonom. i Mat. Metody. Èkonomika i Matematičeskie Metody. (Moscow)

Ekonom.-Mat. Obzor. Československá Akademie Věd. Ekonomicko-Matematický Obzor. (Prague)

Elabuž. Gos. Ped. Inst. Učen. Zap. Elabužskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Kazan)

Electron. Commun. Japan. Electronics and Communications in Japan. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi.* See also: *Systems-Computers-Controls*)

Electron. Lett. Electronics Letters. (London)

Elektron. Informationsverarbeit. Kybernetik. Elektronische Informationsverarbeitung und Kybernetik. (Berlin)

* *Èlektroènerget. i Avtomat.* Akademija Nauk Moldavskoĭ SSR. Otdelenie Energetičeskoĭ Kibernetiki. Èlektroènergetika i Avtomatika. (Kishinev) [53, no. 4]

* *Èlektronika i Modelirovanie.* Akademija Nauk Ukrainskoĭ SSR. Naučnyĭ Sovet po Probleme "Teoretičeskaja Èlektrotehnika i Èlektronika". Institut Èlektrodinamiki. (Kiev) [54, no. 5]

Elem. Math. Elemente der Mathematik. Revue de Mathématiques Élémentaires. Rivista de Matematica Elementare. (Basel)

Engrg. Cybernetics. Engineering Cybernetics. English Edition of *Tehničeskaja Kibernetika.* (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)

Enseignement Math. L'Enseignement Mathématique. Revue Internationale. (Geneva)

* *Erevan. Gos. Univ. Učen. Zap. Estesv. Nauki.* Erevanskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. Estestvennye Nauki. (Erevan) [53, no. 4]

Estadíst. Española. Instituto Nacional de Estadística. Estadística Española. (Madrid)

Estadística. Inter-American Statistical Institute. Estadística. (Washington, D. C.)

Euclides (Groningen). Euclides. Maandblad voor de Didactiek van de Wiskunde. (Groningen)

* *European J. Oper. Res.* European Journal of Operational Research. (Amsterdam) [54, no. 5]

Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadíst. Facultad de Ingenieria y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)

Fasc. Math. Politechnika Poznańska. Instituta Matematyca. Fasciculi Mathematici. (Poznań)

Fibonacci Quart. The Fibonacci Quarterly. Official Organ of the Fibonacci Association. (St. Mary's College, Calif.)

Fields and Quanta. Fields and Quanta. (London)

Fiz. Èlementar. Častic i Atom. Jadra. Ob"edinennyĭ Institut Jadernyh Issledovaniĭ. Dubna. Fizika Èlementarnyh Častic i Atomnogo Jadra. (Moscow) (Translated as: *Soviet J. Particles and Nuclei*)

Fiz.-Mat. Spis. B"lgar. Akad. Nauk. B"lgarska Akademija na Naukite Fizičeski Institut. Matematičeski Institut. Fiziko-Matematičesko Spisanie. (Sofia)

Fizika (Zagreb). Fizika. A Journal of Experimental and Theoretical Physics. (Zagreb)

Fluid Dynamics. Fluid Dynamics. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza*)

Fluid Mech.–Soviet Res. Fluid Mechanics. Soviet Research. (Washington, D. C.)

Formosan Sci. Formosan Science. (Taipei)

Fortschr. Physik. Fortschritte der Physik. (Berlin)

Found. Control Engrg. Technical University of Poznań. Institute of Control Engineering. Foundations of Control Engineering. (Poznań)

Found. Language. International Journal of Language and Philosophy. Foundations of Language. (Dordrecht)

Found. Phys. Foundations of Physics. (New York)

Funct. Approximatio Comment. Math. Uniwersytet im. Adama Mickiewicza w Poznańiu Instytut Matematiyki. Functiones et Approximatio Commentarii Mathematici. (Poznań)

Functional Anal. Appl. Functional Analysis and its Applications. (New York) (Translation of *Funkcional. Anal. i Priložen.*)

* *Fund. Informat.* Fundamenta Informaticae. (Warsaw) [54, no. 4]

Fund. Math. Polska Akademia Nauk. Fundamenta Mathematicae. (Warsaw)

Funkcial. Ekvac. Fako de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkcialaj Ekvacioj. Serio Internacia. (Kobe)

Funkcional. Anal. i Priložen. Akademija Nauk SSSR. Funkcional'nyĭ Analiz i ego Priloženija. (Moscow) (Translated as: *Functional Anal. Appl.*)

Gac. Mat. (Madrid). Gaceta Matemática. (Madrid)

Gamoqeneb. Math. Inst. Sem. Mohsen. Anotacie. Thbilisis Universiteti. Gamoqenebithi Mathematikis Institutis Seminari. Mohsenebatha Anotaciebi. (Tbilisi) (Also listed as: *Sem. Inst. Prikl. Mat. Annotac. Dokladov*)

Gaṇita. Gaṇita Bharat Gaṇita Pariṣad. (Lucknow)

Gaz. Mat. (Lisbon), Gazeta de Matemática. (Lisbon)

Gaz. Mat. Publ. Lunară Pentru Tineret. Gazeta Matematică Publicaţie Lunară Pentru Tineret. (Bucharest)

Gaz. Mat. Ser. A. Societatea de Ştiinţe Matematice din R. P. R. Gazeta Matematică. Publicaţie Pentru Studiul şi Răspîndirea Ştiinţelor Matematice. Seria A. (Bucharest)

General Relativity and Gravitation. General Relativity and Gravitation. (London)

General Topology and Appl. General Topology and its Applications. (Amsterdam)

Genetics. Genetics. A Periodical Record of Investigations Bearing on Heredity and Variation. (Austin, Tex.)

Geodaet. Inst. Medd. Geodaetisk Institut. Meddelelse. (Copenhagen)

Geodes. Mapp. Photogramm. Geodesy Mapping and Photogrammetry. (Washingon, D. C.) (Partial translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot.*)

Geometriae Dedicata. Geometriae Dedicata. (Dordrecht)

Gidroaèromeh. i Teor. Uprugosti. Gidroaèromehanika i Teorija Uprugosti. (Kharkov)

* *Gidromeh.* (Kiev). Akademija Nauk Ukrainskoĭ SSR. Institut Gidromehaniki. Gidromehanika. (Kiev) [54, no.1]

Giorn. Econom. Ann. Econom. Giornale degli Economisti e Annali de Economia. (Milan)

Giorn. Mat. Battaglini. Giornale di Matematiche di Battaglini. (Naples)

Glasgow Math. J. Glasgow Mathematical Journal. (Glasgow)

Glasnik Mat. Ser. III. Društvo Matematičara i Fizičara S. R. Hrvatske. Glasnik Matematički. Serija III. (Zagreb)

Godišnik Sofiĭskija Univ. Fak. Mat. Meh. See *Annuaire Univ. Sofia Fac. Math. Méc.*

Godišnik Vis̆. Inž.-Stroitel. Inst. Godišnik na Vis̆ija Inžerno-Stroitelnija Institut. (Sofia)

Godišnik Vis̆. Himikotehn. Inst. (Burgas). Godišnik Vis̆ija Himikotehnologičeski Institut. Burgas. (Sofia)

Godišnik Vis̆. Tehn. Učebn. Zaved. Fiz. Godišnik na Vis̆ite Tehnîčeski Učebni Zavedenija. Fizika. (Sofia)

Godišnik Vis̆. Tehn. Učebn. Zaved. Mat. Godišnik na Vis̆ite Tehničeski Učebni Zavedenija. Matematika. (Sofia) (Continued as: *Godišnik Vis̆. Učebn. Zaved. Priložna Mat.*)

Godišnik Vis̆. Tehn. Učebn. Zaved. Priložna Meh. Godišnik na Vis̆ite Tehnîčeski Učebni Zavedenija. Priložna Mehanika. (Sofia)

Godišnik Vis̆. Učebn. Zaved. Priložna Mat. Godišnik na Vis̆ite Učebni Zavedenija. Priložna Matematika. (Sofia) (Formerly: *Godišnik Vis̆. Tehn. Učebn. Zaved. Mat.*)

Gor'kov. Gos. Univ. Učen. Zap. Gor'kovskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Gorki)

* *Građevinski Fak. Sarajevo Rad.* Sarajevo. Građevinski Fakultet. Radovi. (Sarajevo) [53, no. 3]

Gruzin. Politehn. Inst. Trudy. Gruzinskiĭ Politehničeskiĭ Institut im. V. I. Lenina. Trudy. (Tbilisi) See *V. I. Lenin. Sakharth. Politekh. Inst. Samecn. Šrom.*

Gujarat Statist. Rev. Gujarat Statistical Review. (Ahmedabad)

Hak-sul Chi. Hak-sul Chi. (Seoul)

Helv. Phys. Acta. Helvetica Physica Acta. Societatis Physicae Helveticae Commentaria Publica. (Basel)

Hiroshima Math. J. Hiroshima Mathematical Journal. (Hiroshima)

Hist. of Sci. History of Science. An Annual Review of Literature, Research, and Teaching. (Cambridge)

Historia Math. Historia Mathematica. (Toronto, Ont.)

Hitotsubashi J. Arts Sci. Hitotsubashi Journal of Arts & Sciences. Hitotsubashi University. (Tokyo)

Hokkaido Math. J. Hokkaido Mathematical Journal. (Sapporo)

Houston J. Math. Houston Journal of Mathematics. (Houston, Tex.)

Humanidades Ser. 4 Lógica Mat. Humanidades. Serie 4. Lógica Matemática. (Havana)

IBM J. Res. Develop. International Business Machines Corporation. Journal of Research and Development. (New York)

IBM Systems J. International Business Machines Corporation. Systems Journal. (Armonk, N. Y.)

IEEE Trans. Acoust. Speech Signal Process. Institute of Electrical and Electronics Engineers. Transactions on Acoustics, Speech, and Signal Processing. (New York) (Formerly: *IEEE Trans. Audio Electroacoust.*)

IEEE Trans. Aerospace and Electron. Systems. Institute of Electrical and Electronics Engineers. Transactions on Aerospace and Electronic Systems. (New York)

IEEE Trans. Antennas and Propagation. Institute of Electrical and Electronics Engineers. Transactions on Antennas and Propagation. (New York)

IEEE Trans. Audio Electroacoust. Institute of Electrical and Electronics Engineers. Transactions on Audio and Electroacoustics. (New York) (Continued as: *IEEE Trans. Acoust. Speech Signal Process.*)

IEEE Trans. Automatic Control. Institute of Electrical and Electronics Engineers. Transactions on Automatic Control. (New York)

IEEE Trans. Circuits and Systems. Institute of Electrical and Electronics Engineers. Transactions on Circuits and Systems. (New York)

IEEE Trans. Comm. Institute of Electrical and Electronics Engineers. Transactions on Communications. (New York)

IEEE Trans. Computers. Institute of Electrical and Electronics Engineers. Transactions on Computers. (New York)

IEEE Trans. Geosci. Electronics. Institute of Electrical and Electronics Engineers. Transactions on Geoscience Electronics. (New York)

IEEE Trans. Information Theory. Institute of Electrical and Electronics Engineers. Transactions on Information Theory. (New York)

IEEE Trans. Microwave Theory Tech. Institute of Electrical and Electronics Engineers. Transactions on Microwave Theory and Techniques. (New York)

IEEE Trans. Plasma Sci. Institute of Electrical and Electronic Engineers. Transactions on Plasma Science. (New York)

IEEE Trans. Reliab. Institute of Electrical and Electronics Engineers. Transactions on Reliability. (New York) (Also serves as the Journal of the Electronics Division, American Society for Quality Control)

IEEE Trans. Software Engrg. Institute of Electrical and Electronics Engineers. Transactions on Software Engineering. (New York)

IEEE Trans. Systems Man Cybernet. Institute of Electrical and Electronic Engineers. Transactions on Systems, Man, and Cybernetics. (New York)

Illinois J. Math. Illinois Journal of Mathematics. (Urbana, Ill.)

Indag. Math. Indagationes Mathematicae. See *Nederl. Akad. Wetensch. Indag. Math.*

Indian J. Engrg. Math. Indian Journal of Engineering Mathematics. (Agra)

Indian J. History Sci. Indian Journal of History of Science. National Institute of Sciences of India. (New Delhi)

Indian J. Math. Indian Journal of Mathematics. (Allahabad)

Indian J. Mech. Math. Indian Journal of Mechanics and Mathematics. (Calcutta)

Indian J. Pure Appl. Math. Indian Journal of Pure and Applied Mathematics. (New Delhi)

Indian J. Pure Appl. Phys. Indian Journal of Pure and Applied Physics. (New Delhi)

Indiana Univ. Math. J. Indiana University Mathematics Journal. (Bloomington, Ind.)

Indust. Math. Industrial Mathematics. (Detroit, Mich.)

INFOR–Canad. J. Operational Res. and Information Processing. INFOR. Canadian Journal of Operational Research and Information Processing. (Toronto, Ont.)

Informác.-Elektron. Információ-Elektronika. A Központi Statisztikai Hivatal Folyóirata. (Budapest)

Information and Control. Information and Control. (New York)

Information Processing in Japan. Information Processing in Japan. (Tokyo) (A partial translation of *Joho-shori*)

Information Processing Lett. Information Processing Letters. (Amsterdam)

Information Processing Machines. Information Processing Machines. (Prague)

Information Sci. Information Sciences. An International Journal. (New York)

Information Syst. Information Systems. An International Journal. (Oxford)

* *Ing.-Arch.* Ingenieur–Archiv. (Berlin) [53, no. 2]

Inst. Hautes Études Sci. Publ. Math. Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)

Inst. Meh. Moskov. Gos. Univ. Naučn. Trudy. Institut Mehaniki Moskovskogo Gosudarstvennogo Universiteta. Naučnye Trudy. (Moscow)

Internat. Econom. Rev. International Economic Review. (Osaka)

Internat. J. Comput. & Fluids. An International Journal. Computers & Fluids. (New York) (Continued as: *Comput. & Fluids*) 54, no. 6]

Internat. J. Comput. Information Sci. International Journal of Computer and Information Sciences. (New York)

Internat. J. Comput. Math. International Journal of Computer Mathematics. Section A. Programming Theory and Methods. Section B. Computational Methods. (New York)

Internat. J. Control. International Journal of Control. (London)

Internat. J. Electron. International Journal of Electronics. (London)

Internat. J. Engrg. Sci. International Journal of Engineering Science. (Oxford)

Internat. J. Fracture. International Journal of Fracture. (Leiden)

Internat. J. Game Theory. International Journal of Game Theory. (Vienna)

Internat. J. Gen. Syst. International Journal of General Systems. Methodology, Applications, Education. (New York)

Internat. J. Man-Machine Studies. International Journal of Man-Machine Studies. (London)

Internat. J. Math. Ed. Sci. Tech. International Journal of Mathematical Education in Science and Technology. (Chichester)

Internat. J. Non-Linear Mech. International Journal of Non-Linear Mechanics. (New York)

Internat. J. Numer. Methods Engrg. International Journal for Numerical Methods in Engineering. (London)

Internat. J. Solids and Structures. International Journal of Solids and Structures. (New York)

Internat. J. Systems Sci. International Journal of Systems Science. (London)

Internat. J. Theoret. Phys. International Journal of Theoretical Physics. (London)

Internat. Logic Rev. International Logic Review. Rassegna Internazionale di Logica. (Bologna)

* *Internat. Math. News.* International Mathematical News. (Vienna) [53, no. 2]

Internat. Statist. Rev. International Statistical Review. Revue Internationale de Statistique. (London)

Invent. Math. Inventiones Mathematicae. (Berlin)

Inž.-Fiz. Ž. Inženerno-Fizičeskiĭ Žurnal. (Minsk) (Translated as: *J. Engrg. Phys.*)

Inž.-Stroitel. Inst. Kuĭbyšev. Sb. Trudov. Moskovskiĭ Ordena Trudovogo Krasnogo Znameni Inženerno-Stroitel'nyĭ Institut im. V. V. Kuĭbyševa. Sbornik Trudov. (Moscow)

Inž. Ž. Meh. Tverd. Tela. Inženernyĭ Žurnal. Mehanika Tverdogo Tela. (Moscow) (Continued as: *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)

Irkutsk. Politehn. Inst. Trudy. Glavnoe Upravlenie Politehničeskih, Mašinostroitel'nyh i Energetičeskih VUZov. Irkutskiĭ Politehničeskiĭ Institut. Trudy. (Irkutsk)

Isis. Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)

* *Islamabad J. Sci.* Islamabad Journal of Sciences; journal of mathematics and sciences. (Islamabad) [54, no. 1]

Israel J. Math. Israel Journal of Mathematics. (Jerusalem)

Israel J. Tech. Israel Journal of Technology. (Jerusalem)

Issled. Nekotoryh Voprosov Mat. Kibernet. Issledovanija Nekotoryh Voprosov Matematičeskoĭ Kibernetiki. (Tbilisi) See *Math. Kibernet. Zogierth. Sakith. Gamokw.*

* *Issled. Prikl. Mat.* Kazanskiĭ Universitet. Issledovanija po Prikladnoĭ Matematike. (Kazan) [53, no. 4]

Ist. Lombardo Accad. Sci. Lett. Rend. A. Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)

Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur. Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)

İstanbul Tek. Üniv. Bül. İstanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul)

İstanbul Üniv. Fen Fak. Mecm. Ser. A. İstanbul Üniversitesi Fen Fakültesi Mecmuası. A Serisi. Sirfi ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A. Mathématiques Pures et Appliquées. (Istanbul)

Istor.-Astronom. Issled. Istoriko-Astronomičeskie Issledovanija. (Moscow)

Istor.-Mat. Issled. Istoriko-Matematičeskie Issledovanija. (Moscow)

Ivanov. Gos. Ped. Inst. Učen. Zap. Ivanovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. D. A. Furmanova. Ivanovskoe Matematičeskoe Obščestvo. Učenye Zapiski. (Ivanovo) (Continued as: *Ivanov. Gos. Univ. Učen. Zap.*)

Ivanov. Gos. Univ. Učen. Zap. Ivanovskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Ivanovo)

Izv. Acad. Sci. USSR Atmospher. Ocean. Phys. Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)

Izv. Acad. Sci. USSR Phys. Solid Earth. Izvestiya Academy of Sciences USSR. Physics of the Solid Earth. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)

Izv. Akad. Nauk Armjan. SSR Ser. Fiz. Izvestija Akademii Nauk Armjanskoĭ SSR. Serija Fizika. (Erevan)

Izv. Akad. Nauk Armjan. SSR Ser. Mat. Izvestija Akademii Nauk Armjanskoĭ SSR. Serija Matematika. (Erevan)

Izv. Akad. Nauk Armjan. SSR Ser. Meh. Izvestija Akademii Nauk Armjanskoĭ SSR. Serija Mehanika. (Erevan)

Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk. Izvestija Akademii Nauk Azerbaĭdžanskoĭ SSR. Serija Fiziko-Tehničeskih i Matematičeskih Nauk. (Baku)

Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Izvestija Akademii Nauk Kazahskoĭ SSR. Serija Fiziko-Matematičeskaja. (Alma-Ata)

Izv. Akad. Nauk Kirgiz. SSR. Izvestija Akademii Nauk Kirgizskoĭ SSR. (Frunze)

Izv. Akad. Nauk Moldav. SSR. Izvestija Akademija Nauk Moldavskoĭ SSR. (Kishinev) See *Bull. Akad. Štiince RSS Moldoven.*

Izv. Akad. Nauk SSSR Meh. Tverd. Tela. Izvestija Akademji Nauk SSSR. Mehanika Tverdogo Tela. (Moscow) (Formerly listed as: *Inž. Z. Meh. Tverd. Tela*) (Translated as: *Mechanics of Solids*)

Izv. Akad. Nauk SSSR Meh. Židk. Gaza. Akademija Nauk SSSR. Izvestija Akademii Nauk SSSR. Mehanika Židkosti i Gaza. (Moscow) (Translated as: *Fluid Dynamics*)

Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana. Izvestija Akademii Nauk SSSR. Serija Fizika Atmosfery i Okeana. (Moscow) (Translated as: *Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.*)

Izv. Akad. Nauk SSSR Ser. Fiz. Zemli. Izvestija Akademii Nauk SSSR Serija Fizika Zemli. (Moscow) (Translated as: *Izv. Acad. Sci. USSR Phys. Solid Earth*)

Izv. Akad. Nauk SSSR Ser. Mat. Izvestija Akademii Nauk SSSR. Serija Matematičeskaja. (Moscow) (Translated as: *Math. USSR-Izv.*)

Izv. Akad. Nauk SSSR Tehn. Kibernet. Izvestija Akademii Nauk SSSR. Tehničeskaja Kibernetika. (Moscow) (Translated as: *Engrg. Cybernetics*)

Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk. Izvestija Akademii Nauk Tadžikskoĭ SSR. Otdelenie Fiziko-Matematičeskih i Geologo-Himičeskih Nauk. (Dushanbe)

Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk. Izvestija Akademii Nauk Turkmenskoĭ SSR. Serija Fiziko-Tehničeskih, Himičeskih i Geologičeskih Nauk. (Ashkhabad)

Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk. Izvestija Akademii Nauk UzSSR. Serija Fiziko-Matematičeskih Nauk. UzSSR Fanlar Akademijasining Ahboroti. Fizika-Matematika Fanlari Serijasi. (Tashkent)

Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk. Izvestija Kazanskogo Filiala Akademiĭ Nauk SSSR. Serija Fiziko-Matematičeskih i Tehničeskih Nauk. (Kazan)

* *Izv. Severo–Kavkaz. Naučn. Centra Vysš. Školy Ser. Estestv. Nauk.* Izvestija Severo–Kavkazskogo Naučnogo Centra Vysšeĭ Školy Estestvennye Nauki. (Rostov-on-Don) [53, no. 4]

Izv. Severo-Kavkaz. Naučn. Centra Vysš. Školy Ser. Tehn. Nauk. Severo-Kavkazskogo Naučnogo Centr Vysšei Školy. Izvestija. Serija Tehničeskie Nauki. (Rostov-on-Don)

Izv. Sibirsk. Otdel. Akad. Nauk SSSR. Izvestija Sibirskogo Otdelenija. Akademija Nauk SSSR. (Novosibirsk)

Izv. Tomsk. Politehn. Inst. Izvestija Tomskogo Ordena Trudovogo Krasnogo Znameni Politehničeskogo Instituta im. S. M. Kirova. (Tomsk)

Izv. Vuzov=Izv. Vysš. Učebn. Zaved. Matematika.

Izv. Vysš. Učebn. Zaved. Aviacion. Tehn. Izvestija Vysših Učebnyh Zavedeniĭ. Aviaconnaja Tehnika. (Kazan) (Translated as: *Soviet Aeronaut.*)

Izv. Vysš. Učebn. Zaved. Èlektromehanika. Izvestija Vysših Učebnyh Zavedeniĭ. Èlektromehanika. (Novocherkassk)

Izv. Vysš. Učebn. Zaved. Fizika. Izvestija Vysših Učebnyh Zavedeniĭ Fizika. (Tomsk) (Translated as: *Soviet Physics J.*)

Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot. Izvestija Vysših Učebnyh Zavedeniĭ. Geodezija i Aèrofotos'emka. (Moscow) (Translated as: *Geodes. and Aerophot.*)

Izv. Vysš. Učebn. Zaved. Matematika. Izvestija Vysših Učebnyh Zavedeniĭ. Matematika. (Kazan) (Translated as: *Soviet Math.* (*Iz. VUZ*))

Izv. Vysš. Učebn. Zaved. Radiofizika. Izvestija Vysših Učebnyh Zavedeniĭ. Radiofizika. (Gorki) (Translated as: *Radiophys. and Quantum Electronics*)

* *J. Acoust. Soc. Amer.* Acoustical Society of America. Journal. (New York) [53, no. 3]

J. Algebra. Journal of Algebra. (New York)

J. Amer. Statist. Assoc. Journal of the American Statistical Association. (Washington, D. C.)

J. Analyse Math. Journal d'Analyse Mathématique. (Jerusalem)

J. Appl. Math. Mech. Journal of Applied Mathematics and Mechanics. Translation of the Soviet journal *Prikladnaja Matematika i Mehanika.* (New York) (Translation of *Prikl. Mat. Meh.*)

J. Appl. Mech. Tech. Phys. Journal of Applied Mechanics and Technical Physics. (New York) (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)

J. Appl. Probability. Journal of Applied Probability. (Sheffield)

J. Approximation Theory. Journal of Approximation Theory. (New York)

J. Assoc. Comput. Mach. Journal of the Association for Computing Machinery. (New York)

J. Astronaut. Sci. American Astronautical Society. Journal of the Astronautical Sciences. (Baltimore, Md.)

J. Atmospheric Sci. Journal of the Atmospheric Sciences. (Boston, Mass.)

J. Austral. Math. Soc. Ser. A. Journal of the Australian Mathematical Society. Series A. (St. Lucia)

J. Austral. Math. Soc. Ser. B. Australian Mathematical Society. Series B. Applied Mathematics. Journal. (St. Lucia)

J. Birla Inst. Tech. and Sci. Pilani. Journal of the Birla Institute of Technology and Science. (Pilani)

J. Chem. Phys. The Journal of Chemical Physics. (New York)

J. Combinatorial Theory Ser. A. Journal of Combinatorial Theory. Series A. (New York)

J. Combinatorial Theory Ser. B. Journal of Combinatorial Theory. Series B. (New York)

* *J. Combinatorics Information Syst. Sci.* Journal of Combinatorics, Information & System Sciences. (Delhi) [54, no. 1]

J. Comput. Appl. Math. Journal of Computational and Applied Mathematics. (Antwerp)

J. Comput. System Sci. Journal of Computer and System Sciences. (New York)

J. Computational Phys. Journal of Computational Physics. (New York)

J. Cuneiform Studies. Journal of Cuneiform Studies. (New Haven, Conn.)

J. Cybernet. Journal of Cybernetics. Transactions of the American Society for Cybernetics. (Washington, D. C.) (Contents include translations from related Japanese and Russian journals.)

* *J. Design Automat. Fault-Tolerant Comput.* Journal of Design Automation & Fault-Tolerant Computing. (Woodland Hills, Calif.) [53, no. 3]

J. Differential Equations. Journal of Differential Equations. (New York)

J. Differential Geometry. Journal of Differential Geometry. (Bethlehem, Pa.)

J. Econom. Journal of Econometrics. (Amsterdam)

J. Econom. Theory. Journal of Economic Theory. (New York)

* *J. Econometrics.* Journal of Econometrics. (Amsterdam) [53, no. 5]

J. Elasticity. Journal of Elasticity. (Leiden)

J. Elisha Mitchell Sci. Soc. Journal of the Elisha Mitchell Scientific Society. (Chapel Hill, N. C.)

J. Engrg. Math. Journal of Engineering Mathematics. (Groningen)

J. Engrg. Phys. Journal of Engineering Physics. (New York) (Translation of *Inž.-Fiz. Ž.*)

J. Fac. Engrg. Chiba Univ. Journal of the Faculty of Engineering. Chiba University. (Chiba)

J. Fac. Engrg. Univ. Tokyo Ser. B. Journal of the Faculty of Engineering. University of Tokyo. Series B. (Tokyo)

J. Fac. Sci. Shinshu Univ. Journal of the Faculty of Science. Shinshu University. (Matsumoto)

J. Fac. Sci. Univ. Tokyo Sect. IA Math. Journal of the Faculty of Science. University of Tokyo. Section IA. Mathematics. (Tokyo)

J. Fluid Mech. Journal of Fluid Mechanics. (London)

J. Franklin Inst. Journal of the Franklin Institute. (Philadelphia, Pa.)

J. Functional Analysis. Journal of Functional Analysis. (New York)

J. Geometry. Journal of Geometry. (Basel)

**J. Graph Theory.* Journal of Graph Theory. (New York) [54, no. 3]

J. Hist. Astronom. Journal for the History of Astronomy. (London)

J. Hokkaido Univ. Ed. Sect. II A. Journal of Hokkaido University of Education. Section II A. (Sapporo)

J. Indian Inst. Sci. Indian Institute of Science. Journal. (Bangalore)

J. Indian Math. Soc. The Journal of the Indian Mathematical Society. (Madras)

J. Indian Statist. Assoc. Journal of the Indian Statistical Association. (Bombay)

J. Inst. Math. Appl. Journal of the Institute of Mathematics and its Applications. (New York)

J. Internat. Assoc. Mathematical Geol. Journal of the International Association for Mathematical Geology. (New York)

J. Japan Statist. Soc. Journal of the Japan Statistical Society (Nihon Tôkei Gakkai Kaihô). (Tokyo)

**J. Jiwaji Univ.* Jiwaji University. Journal (Gwalior) [53, no. 4]

J. Karnatak Univ. Sci. Journal of the Karnatak University. Science. (Dharwar)

J. Korean Math. Soc. Journal of the Korean Mathematical Society. (Seoul)

J. London Math. Soc. The Journal of the London Mathematical Society. (London)

J. Madras Univ. B. Journal of the Madras University. B. Contributions in Mathematics, Physical and Biological Sciences. (Madras)

**J. Madurai Univ.* Madurai University. Journal. (Madurai) [54, no. 6]

J. Math. Anal. Appl. Journal of Mathematical Analysis and Applications. (New York)

J. Math. and Sci. Journal of Mathematics and Sciences. (Islamabad)

J. Math. Biol. Journal of Mathematical Biology. (New York)

J. Math. Econom. Journal of Mathematical Economics. (Amsterdam)

J. Math. (Jabalpur). Journal of Mathematics. (Jabalpur)

J. Math. Kyoto Univ. Journal of Mathematics of Kyoto University. (Kyoto)

J. Math. Pures Appl. Journal de Mathématiques Pures et Appliquées. (Paris)

J. Math. Sci. Journal of Mathematical Sciences. The Society of Mathematical Sciences. (Delhi)

J. Math. Soc. Japan. Journal of the Mathematical Society of Japan. (Tokyo)

J. Math. Tokushima Univ. Journal of Mathematics. Tokushima University. (Tokushima)

J. Mathematical and Physical Sci. Journal of Mathematical and Physical Sciences (Madras)

J. Mathematical Phys. Journal of Mathematical Physics. (New York)

J. Mathematical Psychology. Journal of Mathematical Psychology. (New York)

J. Mathematical Sociology. The Journal of Mathematical Sociology. (London)

**J. Méc. Appl.* Journal de Mécanique Appliquée. (Paris) [54, no. 4]

J. Mécanique. Journal de Mécanique. (Paris)

J. Mech. Phys. Solids. Journal of the Mechanics and Physics of Solids. (London)

J. Multivariate Anal. Journal of Multivariate Analysis. (New York)

**J. Nat. Chiao Tung Univ.* National Chiao Tung University. Journal. (Hsinchu) [53, no. 3]

J. Natur. Sci. and Math. The Journal of Natural Sciences and Mathematics. (Lahore)

J. Number Theory. Journal of Number Theory. (New York)

J. of M.A.C.T. Journal of the Maulana Azad College of Technology. (Bhopal)

J. Operations Res. Soc. Japan. Journal of the Operations Research Society of Japan. (Tokyo)

J. Opt. Soc. Amer. Journal of the Optical Society of America. (New York)

J. Optimization Theory Appl. Journal of Optimization Theory and Applications. (New York)

J. Philos. Logic. Journal of Philosophical Logic. (Dordrecht)

J. Phys. A. Journal of Physics. A. General Physics. (London)

J. Phys. B. Journal of Physics. B. Atomic and Molecular Physics. (London)

J. Phys. Soc. Japan. Journal of the Physical Society of Japan. (Tokyo)

J. Physique. Le Journal de Physique. (Paris)

**J. Proc. Roy. Soc. New South Wales.* Royal Society of New South Wales. Journal and Proceedings. (Sydney)

J. Pure Appl. Algebra. Journal of Pure and Applied Algebra. (Amsterdam)

J. Recreational Math. Journal of Recreational Mathematics. (Westport, Conn.)

J. Reine Angew. Math. Journal für die Reine und Angewandte Mathematik. (Berlin)

J. Res. Nat. Bur. Standards Sect. B. Journal of Research of the National Bureau of Standards. Section B. Mathematical Sciences. (Washington, D. C.)

J. Roy. Statist. Soc. Ser. A. Journal of the Royal Statistical Society. Series A. General. (London)

J. Roy. Statist. Soc. Ser. B. Journal of the Royal Statistical Society. Series B. Methodological. (London)

J. Roy. Statist. Soc. Ser. C Appl. Statist. Journal of the Royal Statistical Society. Series C. Applied Statistics. (London)

**J. Saitama Univ. Fac. Ed. Math. Natur. Sci.* Saitama University. Faculty of Education. Journal. Mathematics and Natural Science. (Urawa) [54, no. 1]

J. Sci. Engrg. Res. Journal of Science and Engineering Research. (Kharagpur)

**J. Sci. (Karachi).* University of Karachi. Journal of Science. (Karachi) [54, no. 2]

J. Sci. Res. Banaras Hindu Univ. The Journal of Scientific Research of the Banaras Hindu University. (Varanasi)

J. Shivaji Univ. Journal of Shivaji University. (Kolhapur)

J. Singapore Nat. Acad. Sci. Singapore National Academy of Science. Journal. (Singapore)

J. Soviet Math. Journal of Soviet Mathematics. (New York) (Translation of: (1) Itogi Nauki–Seriya Matematika (Progress in Science–Mathematical Series); (2) Problemy Matematičeskogo Analiza (Problems in Mathematical Analysis); (3) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)*)

**J. Stat. Plann. Inference.* Journal of Statistical Planning Inference. (Amsterdam) [54, no. 3]

J. Statist. Comp. and Simulation. Journal of Statistical Computation and Simulation. (New York)

J. Statist. Phys. Journal of Statistical Physics. (New York)

J. Statist. Res. Journal of Statistical Research. (Dacca)

J. Structural Learning. Journal of Structural Learning. (London)

J. Symbolic Logic. The Journal of Symbolic Logic. (Providence, R. I.)

J. Tech. Bengal Engrg. College. Journal of Technology. Bengal Engineering College. (Howrah)

J. Tech. Phys. Polish Academy of Sciences. Institute of Fundamental Technological Research. Journal of Technical Physics. (Warsaw)

J. Theoret. Biol. Journal of Theoretical Biology. (London)

J. Tsuda College. Journal of Tsuda College. (Tokyo)

J. Univ. Bombay. Journal of the University of Bombay. (Bombay)

J. Univ. Kuwait Sci. The Journal of the University of Kuwait. Science. (Kuwait)

**J. Univ. Poona.* University of Poona. Journal. (Poona) [54, no. 3]

J. Warburg and Courtauld Inst. Journal of the Warburg and Courtauld Institutes. (London)

Jadernaja Fiz. Akademija Nauk SSSR. Jadernaja Fizika. (Moscow) (Translated as: *Soviet J. Nuclear Phys.*)

Janus. Janus. Revue Internationale de l'Historie des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)

Japan. J. Math. Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)

Jaroslav. Gos. Ped. Inst. Dokl. Naučn. Konfer. Jaroslavskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Doklady na Naučnyh Konferencijah. (Jaroslavl′)

Jaroslav. Gos. Ped. Inst. Učen. Zap. Jaroslavskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. K. D. Užinskogo. Učenye Zapiski. (Jaroslavl′)

Jaroslav. Tehn. Inst. Fiz.-Mat. Nauk. Sb. Naučn. Trudov. Jaroslavskiĭ Tehnologičeskiĭ Institut. Fiziko-Matematičeskie Nauki. Sbornik Naučnyh Trudov. (Jaroslavl′)

Jber. Deutsch. Math.-Verein. Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)

Jñānabha Sect. A. Jñānabha. Section A. Dayanand Vedic Postgraduate College. Kanpur University. (Orai)

Joho-shori. See *Information Processing in Japan.*

Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Kabardino-Balkarskiĭ Gosudarstvennyĭ Universitet. Učenyi Zapiski. (Nalchik)

Kalinin. Gos. Ped. Inst. Učen. Zap. Kalininskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. M. I. Kalinina. Učenye Zapiski. (Kalinin)

Kaliningrad. Gos. Ped. Inst. Učen. Zap. Kaliningradskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Kaliningrad)

Kaliningrad. Gos. Univ. Trudy Kaf. Teoret. i Èksper. Fiz. Kaliningradskiĭ Gosudarstvennyĭ Universitet. Trudy Kafedry Teoretičeskoi i Èksperimental'noi Fiziki. (Kaliningrad)

Kaliningrad. Gos. Univ. Učen. Zap. Kaliningradskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Kaliningrad)

Karachi Math. Assoc. Riazi (Souvenir). Riazi. Souvenir of the Karachi Mathematics Association. (Karachi)

Kazah. Gos. Ped. Inst. Učen. Zap. Kazahskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. Abaja. Učenye Zapiski. (Alma-Ata) (May also appear as: *Alma-Atin. Gos. Ped. Inst. Učen. Zap.*)

Kazan. Gos. Univ. Učen. Zap. Kazanskiĭ Ordena Trudovogo Krasnogo Znameni Gosudarstvennyĭ Universitet im. V. I. Ul'janova-Lenina. Učenye Zapiski. (Kazan)

Keio Engrg. Rep. Keio Engineering Reports. (Tokyo)

* *Keio Math. Sem. Rep.* Keio Mathematical Seminar Reports. (Yokohama) [54, no. 4]

Keirō Kokugogaku See *Math. Linguist.*

Kemerov. Gos. Ped. Inst. Učen. Zap. Kemerovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Kemerovo)

Kenkyû Kiyô–Gakushûin Kōtôka. Memoirs of Gakushûin High School. (Tokyo)

Kexue Tongbao. Chinese Academy of Science. Kexue Tongbao (Science Bulletin). (Peking)

* *Kibernet. i Vyčisl. Tehn.* Akademija Nauk Ukrainskoĭ SSR. Institut Kibernetiki. Kibernetika i Vyčislitel'naja Tehnika. (Kiev) [53, no. 4]

Kibernetika (Kiev). Otdelenie Matematiki, Mehaniki i Kibernetiki Akademii Nauk Ukrainskoĭ SSR. Kibernetika. (Kiev) (Translated as: *Cybernetics*)

Kirov. Gos. Ped. Inst. Učen. Zap. Kirovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. V. I. Lenina. Učenye Zapiski. (Yoshkar-Ola)

Kišinev. Gos. Univ. Učen. Zap. Kišinevskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Kishinev)

* *Klasični Naučn. Spisi Mat. Inst. Beograd.* Beograd. Matematicki Institut. Klasični Naučn. Spisi. (Belgrade) [53, no. 5]

Knižnice Odborn. Věd. Spisů Vysoké. Učení Tech. v Brně. Knižnice Odborných a Vědeckých Spisů Vysokého Učení Technického v Brně. Vysoké Učení Technické v Brně. (Brno)

* *Kōdai Math. J.* Kōdai Mathematical Journal. (Tokyo) (Formerly: *Kōdai Math. Sem. Rep.*) [54, no. 3]

Kōdai Math. Sem. Rep. Kōdai Mathematical Seminar Reports. (Tokyo) (Continued as: *Kōdai Math. J.*) [54, no. 3]

Kolomen. Ped. Inst. Učen. Zap. Kolomenskiĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Kolomna)

Kombinatornyĭ Anal. Kombinatornyĭ Analiz. Moskovskiĭ Gosudarstvennyĭ Universitet im. M. V. Lomonosova. (Moscow)

Kosmičes. Issled. Kosmičeskie Issledovanija. (Moscow) (Translated as: *Cosmic Res.*)

Kostrom. Gos. Ped. Inst. Učen. Zap. Kostromskoĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. N. A. Nekrasova. Učenye Zapiski. (Jaroslavl')

Közlemények–MTA Számitástechn. Automat. Kutató Int. Budapest Közlemények. MTA Számitástechnikai és Automatizálási Kutató Intézet Budapest. (Budapest)

Krasnojarsk. Politehn. Inst. Sb. Naučn. Trudov Meh. Fak. Krasnojarskiĭ Politehničeskiĭ Institut. Sbornik Naučnyh Trudov Mehaničeskogo Fakul'teta. (Krasnoyarsk)

Kuban. Gos. Univ. Naučn. Trudy. Kubanskiĭ Gosudarstvennyĭ Universitet. Naučnye Trudy. (Krasnodar)

Kuĭbyšev. Gos. Ped. Inst. Učen. Zap. Ministerstvo Prosveščenija RSFSR. Kuĭbyševskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. V. V. Kuĭbyševa. Učenye Zapiski. (Kuybyshev)

* *Kumamoto J. Sci. (Math.)* Kumamoto Journal of Science. (Mathematics). (Kumamoto) (Formerly: *Kumamoto J. Sci. Ser. A*) [54, no. 4]

Kumamoto J. Sci. Ser. A. Kumamoto Journal of Science. Series A. Mathematics, Physics and Chemistry. (Kumamoto) (Continued as: *Kumamoto J. Sci. (Math.)*) [54, no. 4]

Kursk. Gos. Ped. Inst. Učen. Zap. Kurskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Belgorod)

Kvant. Akademija Nauk SSSR i Akademija Pedagogičeskih Nauk SSSR. Kvant. Naučno-populjarnyĭ Fiziko-matematičeskiĭ Žurnal. (Moscow)

Kwart. Hist. Nauki i Tech. Polska Akademia Nauk. Zakład Historii Nauki i Techniki. Kwartalnik Historii Nauki i Techniki. (Warsaw)

Kybernetes. Κυβερνήτης. An International Journal of Cybernetics and General Systems. (London)

Kybernetika (Prague). Kybernetika. (Prague)

Kyungpook Math. J. Kyungpook National University. Kyungpook Mathematical Journal. (Taegu)

Labdev–J. Sci. Tech. Part A. Labdev. Journal of Sciences and Technology. Part A. Physical Sciences. (Kanpur)

* *Latviĭsk. Mat. Ežegodnik.* Latviĭskiĭ Gosudarstvennyĭ Universitet im. P. Stučki. Latviĭskiĭ Matematičeskiĭ Ežegodnik. (Riga) [53, no. 5]

Latvijas PSR Zinātņ. Akad. Vēstis. Latvijas PSR Zinātņu Akademijas Vēstis. Izvestija Akademii Nauk Latviĭskoĭ SSR. (Riga)

Latvijas PSR Zinātņ. Akad. Vēstis Fiz. Tehn. Zinātņ. Sēr. Latvijas PSR Zinātņu Akadēmijas Vēstis. Fizikas un Tehnisko Zinātņu Sērija. Izvestija Akademii Nauk Latviĭskoĭ SSR. Serija Fizičeskih i Tehničeskih Nauk. (Riga)

Latvijas Valsts Univ. Zinātņ. Raksti. PSRS Augstākās Izglītības Ministrija. Pētera Stučkas Latvijas Valsts Universitate. Zinātņiskie Raksti. Ministerstvo Vysšego Obrazovanija. Latviĭskiĭ Gosudarstvennyĭ Universitet im. Petra Stučki. Učenye Zapiski. (Riga)

Leninabad. Gos. Ped. Inst. Učen. Zap. Leninabadskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Dushanbe)

Leningrad. Gos. Ped. Inst. Učen. Zap. Leningradskiĭ Gosudarstvenny. Pedagogičeskiĭ Institut im. A. I. Gercena. Učenye Zapiski. (Leningrad)

Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk. Leningradskiĭ Gosudarstvennyĭ Ordena Lenina Universitet im. A. A. Ždanova. Učenye Zapiski. Serija Matematičeskih Nauk. (Leningrad)

Leningrad. Inž.-Èkonom. Inst. Trudy. Leningradskiĭ Inženerno-Èkonomičeskiĭ Institut im. Pal'miro Tol'jatti. Trudy. (Leningrad)

Leningrad. Inž.-Stroitel. Inst. Sb. Trudov. Leningradskiĭ Inženerno-Stroitel'skiĭ Institut. Sbornik Trudov. (Leningrad)

Leningrad. Meh. Inst. Sb. Trudov (LMI). Leningradskiĭ Mehaničeskiĭ Institut. Sbornik Trudov (LMI). (Leningrad)

Leningrad. Politehn. Inst. Trudy. Leningradskiĭ Politehničeskiĭ Institut im. M. I. Kalinina. Trudy LPI. (Leningrad)

Lett. Math. Phys. Letters in Mathematical Physics. A Journal for the Rapid Dissemination of Short Contributions in the Field of Mathematical Physics. (Dordrecht)

Lett. Nuovo Cimento. Lettere al Nuovo Cimento. Rivista Internazionale della Società Italiana di Fisica. (Bologna)

Libyan J. Sci. The Libyan Journal of Science. (Tripoli)

Linear Algebra and Appl. Linear Algebra and its Applications. (New York)

Linear and Multilinear Algebra. Linear and Multilinear Algebra. (New York)

Lithuanian Math. Trans. Lithuanian Mathematical Transactions. (New York) (Translation of *Litovsk. Mat. Sb.*)

Litovsk. Fiz. Sb. Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštosios Mokyklos. Lietuvos Fizikos Rinkinys. Akademija Nauk Litovskoĭ SSR. Vysšie Školy Litovskoĭ SSR. Litovskiĭ Fizičeskiĭ Sbornik. (Vilnius) (Translated as: *Soviet Physics–Collection*)

Litovsk. Mat. Sb. Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštosios Mokyklos. Lietuvos Matematikos Rinkinys. Akademija Nauk Litovskoĭ SSR. Vysšie Učebnye Zavedenija Litovskoĭ SSR. Litovskiĭ Matematičeskiĭ Sbornik. (Vilnius)

Logique et Analyse. Logique et Analyse. (Louvain)

Lucrări Şti. Inst. Ped. Galaţi. Lucrări Ştiinţifice. Institutul Pedagogic Galaţi. (Galaţi)

L'vov. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat. MVO USSR. L'vovskiĭ Politehničeskiĭ Institut. Naučnye Zapiski. Serija Fiziko-Matematičeskaja. (Lvov)

Magnetohydrodynamics. Magnetohydrodynamics. (A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR). (New York) (Translation of *Magnit. Gidrodinamika*)

Magnit. Gidrodinamika. Akademija Nauk Latviĭskoĭ SSR. Magnitnaja Gidrodinamika. (Riga) (Translated as: *Magnetohydrodynamics*)

Magyar Tud. Akad. Mat. Fiz. Oszt. Közl. A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei. (Budapest) (Continued as: *Alkalmaz. Mat. Lapok*)

Makedon. Akad. Nauk. Umet. Oddel. Prirod.-Mat. Nauk. Prilozi. Makedonska Akademija na Naukite i Umetnostite. Oddelenie za Prirodo-Matematički Nauki. Prilozi. (Skopje)

Management Sci. Management Science. Journal of the Institute of Management Science. Application and Theory Series. (Philadelphia, Pa.)

Manifold. Manifold. A Mathematics Magazine. (Coventry)

Manuscripta Math. Manuscripta Mathematica. (Berlin)

Mari. Gos. Ped. Inst. Učen. Zap. Mariĭskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Ioshkar-Ola)

Mat. Časopis Sloven. Akad. Vied. Matematicky Časopis Slovenskej Akadémie Vied. (Bratislava) (Continued as: *Math. Slovaca*) [53, no. 4]

Mat. Enseñanza. Matematicas y Enseñanza. (Mexico City)

Mat.-Fys. Medd. Danske Vid. Selsk. Matematiskfysiske Meddelelser udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)

Mat. Issled. Akademija Nauk Moldavskoĭ SSR. Institut Matematiki s Vyčislitel'nym Centrom. Matematičeskie Issledovanija. (Kishinev)

Mat. Lapok. Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)

**Mat. Metody i Fiz.-Meh. Polja.* Akademija Nauk Ukrainskoĭ SSR. L'vovskiĭ Filial Matematičeskoĭ Fiziki Instituta Matematiki. Matematičeskie Metody i Fiziko-Mehaničeskie Polja. (Kiev) [53, no. 5]

Mat. Metody v Social. Nauk.–Trudy Sem. Processy Optimal. Upravlenija II Sekcija. Institut Fiziki i Matematiki Litovskoĭ SSR. Matematičeskie Metody v Social'nyh Naukah. Trudy Respublikanskogo Naučnogo Seminara "Processy Optimal'nogo Upravlenija". II Sekcija. (Vilnius)

Mat. Sb. Matematičeskiĭ Sbornik. Novaja Serija. (Moscow) (Translated as: *Math. USSR-Sb.*)

**Mat. Sb. (Tomsk).* Tomsk. Gosudarstvennyĭ Universitet. Matematičeskiĭ Sbornik. (Tomsk) [54, no. 1]

**Mat. Stos.* Matematyka Stosowana. (Warsaw) [54, no. 3]

Mat. v Škole. Ministerstvo Prosveščenija RSSR. Matematika v Škole. (Moscow)

Mat. Vesnik. Društvo Matematičara, Fizičara i Astronoma SRS i Matematički Institut-Beograd. Matematički Vesnik. Nova Serija. (Belgrade)

Mat. Zametki. Akademija Nauk Sojuza SSR. Matematičeskie Zametki. (Moscow) (Translated as: *Math. Notes*)

**Match.* Match. (Mülheim) [53, no. 3]

Matematiche (Catania). Le Matematiche. (Catania)

Matematika (Belgrade). Matematika. (Belgrade)

Matematika–Period. Sb. Perevodov Inostran. Stateĭ. Matematika. Periodičeskiĭ Sbornik Perevodov Inostrannyh Stateĭ. (Moscow)

**Materialy Sem. Kibernet.* Akademija Nauk Moldavskoĭ SSR. Materialy Seminara po Kibernetike. (Kishinev) [53, no. 4]

Math. Ann. Mathematische Annalen. (Berlin)

Math. Balkanica. Mathematica Balkanica. (Belgrade)

Math. Biosci. Mathematical Biosciences: An International Journal. (New York)

Math. Chronicle. Mathematical Chronicle. (Auckland)

**Math. Colloq. Univ. Cape Town.* Mathematics Colloquium University of Cape Town. (Cape Town) [53, no. 4]

**Math. Comp.* Mathematics of Computation. (Providence, R. I.) (Formerly: *Math. Comput.*) [54, no. 1]

Math. Comput. Mathematics of Computation. (Providence, R. I.) (Continued as: *Math. Comp.*) [54, no. 1]

Math. Education. The Mathematics Education. (Siwan)

Math. Gaz. The Mathematical Gazette. (London)

Math. J. Okayama Univ. Mathematical Journal of Okayama University. (Okayama)

Math. Japon. Mathematica Japonicae. (Osaka)

Math. Kibernet. Zogierth. Sakith. Gamokw. Mathematikuri Kibernetikis Zogierthi Sakithxis Gamokwewa. Thbilisis Saḫelmcipho Universiteti Gamoqenebithi Mathematikis Instituti. (Tbilisi) (Also listed as: *Issled. Nekotoryh Voprosov Mat. Kibernet.*)

Math. Mag. Mathematics Magazine. (Buffalo, N. Y.)

**Math. Medley.* Mathematical Medley. (Singapore) [54, no. 6]

Math. Nachr. Mathematische Nachrichten. (Berlin)

Math. Notae. Mathematicae Notae. Boletin del Instituto de Matemática. (Rosario)

Math. Notes. Mathematical Notes of the Academy of Sciences of the USSR. (New York) (Translation of *Mat. Zametki*)

**Math. Oper. Res.* Mathematics of Operations Research. (Providence, R. I.) [53, no. 1]

Math. Operationsforsch. Statist. Mathematische Operationsforschung und Statistik. (Berlin) (Continued as: *Math. Operationsforsch. Statist. Ser. Optimization and Math. Operationsforsch. Statist. Ser. Statist.*)

**Math. Operationsforsch. Statist. Ser. Optimization.* Mathematische Operationsforschung und Statistik Series Optimization. (Berlin) (Formerly: *Math. Operationsforsch. Statist.*) [54, no. 6]

**Math. Operationsforsch. Statist. Ser. Statist.* Mathematische Operationsforschung und Statistik Series Statistics. (Berlin) (Formerly: *Math. Operationsforsch. Statist.*) [54, no. 6]

Math.-Phys. Semesterber. Mathematisch-Physikalische Semesterberichte. (Göttingen)

Math. Proc. Cambridge Philos. Soc. Mathematical Proceedings of the Cambridge Philosophical Society. (Cambridge, England)

Math. Programming. Mathematical Programming. (Amsterdam)

**Math. Programming Stud.* Mathematical Programming Study. (Amsterdam) [53, no. 4]

Math. Rep. College General Ed. Kyushu Univ. Mathematical Reports of College of General Eduction. Kyushu University. (Fukuoka)

Math. Scand. Mathematica Scandinavica. (Copenhagen)

Math. Sci. Humaines. Centre de Mathématique Sociale. École Pratique des Hautes Études. Mathématiques et Sciences Humaines. (Paris)

Math. Sem. Notes Kobe Univ. Kobe University. Mathematics Seminar Notes. (Kobe)

Math. Seminar. The Mathematics Seminar. (Delhi)

**Math. Slovaca.* Mathematica Slovaca. (Bratislava) (Formerly: *Mat. Časopis Sloven. Akad. Vied*) [53, no. 3]

Math. Student. The Mathematics Student. (Madras)

Math. Systems Theory. Mathematical Systems Theory. (New York)

Math. USSR-Izv. Mathematics of the USSR-Izvestija. (Providence, R. I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)

Math. USSR-Sb. Mathematics of the USSR-Sbornik. (Providence, R. I.) (Translation of *Mat. Sb.*)

Math. Z. Mathematische Zeitschrift. (Berlin)

Mathematica (Cluj). Societatea de Ştiinţe Matematice şi Fizice din R.P.R. Filiala Cluj. Mathematica. (Cluj)

Mathematika. Mathematika. A Journal of Pure and Applied Mathematics. (London)

Matrix Tensor Quart. The Tensor Club of Great Britain. The Matrix and Tensor Quarterly. (London)

MC Mathematics of Computation. (Providence, R. I.) (Reviewed as: *Math. Comput.*)

Meccanica–J. Italian Assoc. Theoret. Appl. Mech. Meccanica. Journal of the Italian Association of Theoretical and Applied Mechanics. (Milan)

Mech. Teoret. Stos. Polskie Towarzystwo Mechaniki Teoretycznej i Stosowanej. Mechanika Teoretyczna i Stosowana. (Warsaw)

Mechanics of Solids. Mechanics of Solids. (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)

Med. Konink. Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch. Mededelingen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels)

**Meh. Tverd. Tela.* Akademija Nauk Ukrainskoĭ SSR. Institut Prikladnoĭ Matematiki i Mehaniki. Mehanika Tverdogo Tela. (Kiev) [53, no. 4]

Mehanika–Period. Sb. Perevodov Inostran. Stateĭ. Mehanika. Periodičeskiĭ Sbornik Perevodov Inostrannyh Stateĭ. (Moscow)

Mehanika Polimerov. Akademija Nauk Latviĭskoĭ SSR. Institut. Mehaniki Polimerov. Mehanika Polimerov. (Riga)

Melekess. Gos. Ped. Inst. Učen. Zap. Melekesskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Melekess)

Mem. Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur. Memorie dell'Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)

Mem. Amer. Math. Soc. Memoirs of the American Mathematical Society. (Providence, R. I.)

Mem. Defense Acad. Memoirs of the Defense Academy. Mathematics, Physics, Chemistry and Engineering. (Yokosuka)

Mem. Ehime Univ. Natur. Sci. Ser. A. Memoirs of the Ehime University. Natural Science. Series A. (Matsuyama)

Mem. Ehime Univ. Sect. III Engrg. Ehime University. Memoirs. Section III. Engineering. (Matsuyama)

Mem. Fac. Ed. Kumamoto Univ. Sect. 1. Memoirs of the Faculty of Education. Kumamoto University. Section 1. Natural Science. (Kumamoto)

Mem. Fac. Ed. Miyazaki Univ. Memoirs of the Faculty of Education. Miyazaki University. (Miyazaki)

Mem. Fac. Engrg. Hiroshima Univ. Memoirs of the Faculty of Engineering. Hiroshima University. (Hiroshima)

Mem. Fac. Engrg. Kyoto Univ. Memoirs of the Faculty of Engineering. Kyoto University. (Kyoto)

Mem. Fac. Engrg. Miyazaki Univ. Memoirs of the Faculty of Engineering. Miyazaki University. (Miyazaki)

Mem. Fac. Gen. Ed. Kumamoto Univ. Natur. Sci. Kumamoto University. Faculty of General Education. Natural Sciences. Memoirs. (Kumamoto)

Mem. Fac. Indust. Arts Kyoto Tech. Univ. Sci. and Tech. Memoirs of the Faculty of Industrial Arts. Kyoto Technical University. Science and Technology. (Kyoto)

Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci. Memoirs of the Faculty of Literature and Science. Shimane University. Natural Sciences. (Matsue)

Mem. Fac. Sci. Kyushu Univ. Ser. A. Memoirs of the Faculty of Science. Kyushu University. Series A. Mathematics. (Fukuoka)

Mem. Kitami Inst. Tech. Memoirs of the Kitami Institute of Technology. (Kitami)

Mem. Muroran Inst. Tech. Memoirs of the Muroran Institute of Technology. (Muroran)

Mem. Numer. Math. Memoirs of Numerical Mathematics. (Kyoto)

Mem. Osaka Inst. Tech. Ser. A. Memoirs of the Osaka Institute of Technology. Series A. Science & Technology. (Osaka)

Mem. Osaka Kyoiku Univ. III Natur. Sci. Appl. Sci. Memoirs of Osaka Kyoiku University. III. Natural Science and Applied Science. (Osaka)

Mem. Real Acad. Ci. Art. Barcelona. Memorias de la Real Academia de Ciencias y Artes de Barcelona. (Barcelona)

Mem. Real Acad. Ci. Exact. Fis. Natur. Madrid. Memorias de la Real Academia de Ciencias Exactas, Fisicas y Naturales de Madrid. Serie de Ciencias Exactas. (Madrid)

Mem. School Engrg. Okayama Univ. Memoirs of the School of Engineering. Okayama University. (Okayama)

Mem. School Sci. Engrg. Waseda Univ. Memoirs of the School of Science and Engineering. Waseda University. (Tokyo)

Mem. Soc. Astronom. Ital. Memorie della Società Astronomica Italiana. (Milan)

Mém. Soc. Roy. Sci. Liège Coll. in-8. Mémoires de la Société Royale des Sciences de Liège. Collection in-8. (Liège)

Metody Vyčisl. Leningradskiĭ Ordena Lenina Gosudarstvennyĭ Universitet im. A. A. Ždanova. Kafedra Vyčislitel'noĭ Matematiki i Vyčislitel'nyi Centr. Metody Vyčislenii. (Leningrad)

Metrika. Metrika. (Würzburg)

Metroecon. Metroeconomica. Rivista Internazionale di Economica. (Bologna)

Metron. Metron. (Rome)

METU J. Pure Appl. Sci. Middle East Technical University. Journal of Pure and Applied Sciences. Orta Doğu Teknik Universitesi. Temel ve Uygulamali Bilimler Dergisi. (Ankara)

METU Studies Develop. Middle East Technical University. Studies in Development. (Ankara)

Michigan Math. J. The Michigan Mathematical Journal. (Ann Arbor, Mich.)

Mind. Mind. A Quarterly Review of Psychology and Philosophy. (Oxford)

Miscelánea Mat. Miscelánea Matematica. (Mexico City)

Mitt. Math. Gesellsch. Hamburg. Mitteilungen der Mathematischen Gesellschaft in Hamburg. (Hamburg)

Mitt. Math. Sem. Giessen. Mitteilungen aus dem Mathematischen Seminar Giessen. (Giessen)

Modelirovanie Èkonom. Processov. Otdelenie Èkonomičeskoĭ Kibernetiki Èkonomičeskogo Fakul'teta Moskovskogo Gosudarstvennogo Universiteta im. M. V. Lomonosova. Modelirovanie Èkonomičeskih Processov. (Moscow)

Molecular Phys. Molecular Physics. (London)

Molod. Naučn. Rabotnik. Erevanskiĭ Gosudarstvennyĭ Universitet. Molodoĭ Naučnyĭ Rabotnik. (Erevan)

Monatsh. Math. Monatshefte für Mathematik. (Vienna)

Moscow Univ. Math. Bull. Moscow University Mathematics Bulletin. (New York) (Translation of the mathematics section of *Vestnik Moskov. Univ. Ser.I Mat. Meh.*)

Moscow Univ. Phys. Bull. Moscow University Physics Bulletin. (New York) (Translation of the physics section of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)

Moskov. Aviacion. Inst. Ordžonikidze Trudy. Moskovskiĭ Ordena Lenina Aviacionnyĭ Institut im. Sergo Ordžonikidze. Trudy. (Moscow)

Moskov. Gos. Ped. Inst. Učen. Zap. Moskovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. V. I. Lenina. Učenye Zapiski. (Moscow)

Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Sternberg. Moskovskiĭ Gosudarstvennyĭ Universitet im. M. V. Lomonosova. Soobščenija Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)

Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Šternberg. Moskovskiĭ Gosudarstvennyĭ Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)

Moskov. Gos. Zaočn. Ped. Inst. Sb. Naučn. Trudov. Moskovskiĭ Gosudarstvennyĭ Zaočnyĭ Pedagogičeskiĭ Institut. Sbornik Naučnyh Trudov. (Moscow) (Formerly: *Moskov. Zaočn. Ped. Inst. Učen. Zap.*)

Moskov. Inst. Èlektron. Mašinostroenija–Trudy MIÈM. Moskovskiĭ Institut Èlektronnogo Mašinostroenija. Trudy MIEM. (Moscow)

Moskov. Inst. Inž. Železnodorož. Transporta Trudy. Moskovskiĭ Institut Inženerov Železnodorožnogo Transporta. Trudy. (Moscow)

Moskov. Inž.-Stroitel. Inst. Sb. Trudov. Moskovskiĭ Inženerno-Stroitel'skiĭ Institut im. V. V. Kuĭbyševa. Sbornik Trudov. (Moscow)

Moskov. Lesotehn. Inst. Naučn. Trudy. Moskovskiĭ Lesotechničeskiĭ Institut. Naučnye Trudy. (Moscow)

Moskov. Oblast. Ped. Inst. Učen. Zap. Moskovskiĭ Oblastnoĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Moscow)

MR. Mathematical Reviews. (Providence, R. I.)

Muromsk. Gos. Ped. Inst. Učen. Zap. Muromskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Vladimir)

Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II. Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)

Nachrichtentech. Elektronik. Nachrichtentechnik. Elektronik. Technisch-wissenschaftliche Zeitschrift für die Gesamte Elektronische Nachrichtentechnik. (Berlin)

Nadežn. i Kontrol' Kačestva. Ežemesjačnoe Priloženie k Žurnalu Standarty i Kačestvo Gosudarstvennyĭ Komitet Standartov Soveta Ministrov SSR. Nadežnost' i Kontrol' Kačestva. (Moscow)

Nagoya Math. J. Nagoya Mathematical Journal. (Nagoya)

Nanta Math. Nanyang University. Nanta Mathematica. (Singapore)

Nanyang Univ. J. Part III. Nanyang Univ. J. Part III. Natural Sciences. (Singapore)

Natur. Sci. Rep. Ochanomizu Univ. Natural Science Report of the Ochanomizu University. (Tokyo)

Naučn.-Issled. i Proekt. Inst. Mehanizacii i Avtomatizacii Upravlenija Proizv. v Avtomobil. Promyšl. (NIIUAVTOPROM) Trudy. Naučno-Issledovatel'skiĭ i Proektnyĭ Institut Mehanizacii i Avtomatizacii Upravlenija Proizvodstvom v Avtomobil'noĭ Promyšlennosti (NIIUAVTOPROM). Trudy Instituta. (Gorki)

Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnye Processy i Sistemy. Akademija Nauk SSSR. Vsesojuznyĭ Institut Naučnoi i Tehničeskoĭ Informacii. Naučno-Tehničeskaja Informacija. Serija 2. Informacionnye Processy i Sistemy. (Moscow) (Translated as: *Automat. Document. and Math. Linguist.*)

Naval Res. Logist. Quart. Naval Research Logistics Quarterly. (Washington, D. C.)

NEC Res. Development. NEC Research and Development (Technical Journal of Nippon Electric Co., Ltd.). (Tokyo)

Nederl. Akad. Wetensch. Indag. Math. Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)

Nederl. Akad. Wetensch. Proc. Ser. A. Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)

Nederl. Akad. Wetensch. Proc. Ser. B. Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)

Nederl. Akad. Wetensch. Verslag Afd. Natuurk. Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam)

Networks. Networks. An International Journal. (New York)

New Zealand Math. Mag. The New Zealand Mathematics Magazine. (Auckland)

New Zealand Oper. Res. New Zealand Operational Research. (Wellington)

Nieuw Arch. Wisk. Nieuw Archief voor Wiskunde. (Groningen)

Nieuw Tijdschr. Wisk. Nieuw Tijdschrift voor Wiskunde. (Groningen)

Nigerian J. Sci. University of Ibadan. Nigerian Journal of Science. (Ibadan)

**Nonlinear Anal.* Nonlinear Analysis. (Oxford) [54, no. 1]

Nordisk Mat. Tidskr. Nordisk Matematisk Tidskrift. (Oslo)

Nordisk Tidskr. Informationsbehandling (BIT). Nordisk Tidskrift for Informationsbehandling. (Copenhagen)

**Norske Vid.-Akad. Oslo Mat.-Natur. Kl. Skr.* Norske Videnskaps-Akademi i Oslo. Matematisk-Naturvidenskapelig Klasse. Skrifter. (Oslo) (Formerly: *Skr. Norske Vid.-Akad. Oslo I*) [53, no. 3]

Norske Vid. Selsk. Forh. (Trondheim). Det Kongelige Norske Videnskabers Selskabs Forhandlinger. (Trondheim)

Norske Vid. Selsk. Skr. (Trondheim). Det Kongelige Norske Videnskabers Selskabs Skrifter. (Trondheim)

Notas Cl. Ser. M Mat. Notas Científicas Serie M. Matemática. (Lima)

Notes and Records Roy. Soc. London. Notes and Records of the Royal Society of London. (London)

Notices Amer. Math. Soc. Notices of the American Mathematical Society. (Providence, R. I.)

Notre Dame J. Formal Logic. Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)

Noûs. Noûs. (Bloomington, Ind.)

Nova Acta Leopoldina (N.F.). Nova Acta Leopoldina. Abhandlungen der Deutschen Akademie der Naturforscher Leopoldina. Neue Folge. (Leipzig)

Novgorod. Golovn. Gos. Ped. Inst. Učen. Zap. Novgorodskiĭ Golovnoĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Novgorod)

Novosibirsk. Gos. Ped. Inst. Naučn. Trudy. Novosibirskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Naučnye Trudy. (Novosibirsk)

NTM Schr. Geschichte Naturwiss. Tech. Medizin. NTM Schriftenreihe für Geschichte der Naturwissenschaften Technik und Medizin. (Leipzig)

Nuclear Phys. A. Nuclear Physics. A. (Amsterdam)

Nuclear Phys. B. Nuclear Physics. B. (Amsterdam)

Numer. Math. Numerische Mathematik. (Berlin)

Nuovo Cimento A. Il Nuovo Cimento. A. (Bologna)

Nuovo Cimento B. Il Nuovo Cimento. B. (Bologna)

Obs. Astronom. Univ. Nac. La Plata Ser. Astronom. Observatorio Astronomico de la Universidad Nacional de La Plata. Serie Astronomica. (La Plata)

Obzornik Mat. Fiz. Društvo Matematikov, Fizikov in Astronomov SRS. Obzornik za Matematiko in Fiziko. (Ljubljana)

Omsk. Inst. Inž. Železnodorož. Transporta Naučn. Trudy. Omskiĭ Institut Inženerov Železnodorožnogo Transporta. Naučnye Trudy. (Omsk)

Operational Res. Quart. Operational Research Quarterly. (Bristol)

Operations Res. Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)

Opsearch. Opsearch. The Journal of the Operational Research Society of India. (Delhi)

Optica Acta. Optica Acta. (London)

Optimal. Planirovanie. Optimal'noe Planirovanie. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. (Novosibirsk)

Optimizacija. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Optimizacija. (Novosibirsk)

OR. Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.)

Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat. Orehovo-Zuevskiĭ Pedagogičeskiĭ Institut. Učenye Zapiski Kafedry Matematiki. (Moscow)

Orenburg. Gos. Ped. Inst. Učen. Zap. Orenburgskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. V. P. Čkalova. Učenye Zapiski. (Chelyabinsk)

Organon. Organon. Institut d'Histoire de la Science et de la Technique auprès de l'Académie Polonaise des Sciences. (Warsaw)

Orlov. Gos. Ped. Inst. Učen. Zap. Orlovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Orel)

Orsk. Gos. Ped. Inst. Učen. Zap. Orskiĭ Gosudarstvennyĭ Pedogogičeskiĭ Institut im. T. G. Ševčenko. Učenye Zapiski. (Orsk)

Osaka J. Math. Osaka Journal of Mathematics. (Osaka)

Österreich. Akad. Wiss. Math.-Naturwiss. Kl. Denkschr. Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Denkschriften. (Vienna)

Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II. Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna) (Continued as: *Österreich. Akad. Wiss. Math.-Naturwiss. Kl. S.-B. II*) [53, no. 4]

**Österreich. Akad. Wiss. Math.-Naturwiss. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meterologie und Technik. (Vienna) (Formerly: *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II*) [53, no. 4]

Otbor i Peredača Informacii. Otbor i Peredača Informacii. Akademija Nauk Ukrainskoĭ SSR. Fiziko-Mehaničeskii Institut. (Kiev)

Pacific J. Math. Pacific Journal of Mathematics. (Berkeley, Calif.)

Papers and Proc. Roy. Soc. Tasmania. Papers and Proceedings of the Royal Society of Tasmania. (Hobart)

Pattern Recognition. The Journal of the Pattern Recognition Society. (New York)

Penz. Ped. Inst. Učen. Zap. Penzenskiĭ Pedagogičeskiĭ Institut im. V. G. Belinskogo. Učenye Zapiski. (Penza)

Penz. Politehn. Inst. Učen. Zap. Mat. Meh. Penzenskiĭ Politehničeskiĭ Institut. Matematika i Mehanika. Učenye Zapiski. (Penza)

Period. Mat. Periodico di Matematiche. (Bologna)

Period. Math. Hungar. Periodica Mathematica Hungarica. Journal of the János Bolyai Mathematical Society. (Budapest)

Perm. Gos. Ped. Inst. Učen. Zap. Permskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Perm)

Perm. Gos Univ. Učen. Zap. Permskiĭ Gosudarstvennyĭ Universitet im. A. M. Gor'kogo. Učenye Zapiski. (Perm)

Perm. Politehn. Inst. Sb. Naučn. Trudov. Permskiĭ Politehničeskiĭ Institut. Sbornik Naučnyh Trudov. (Perm)

Petrozavodsk. Gos. Univ. Učen. Zap. Petrozavodskiĭ Gosudarstvennyĭ Universitet. Učenye Zapiski. (Petrozavodsk)

Philips Res. Rep. Philips Research Reports. (Eindhoven)

Philips Res. Rep. Suppl. Philips Research Reports. Supplements. (Eindhoven)

Philos. Forum Quart. The Philosophical Forum. A Quarterly. (Boston, Mass.)

Philos. Math. Philosophia Mathematica. An International Journal for Philosophy of Modern Mathematics. (Hauppauge, N. Y.)

Philos. Natur. Philosophia Naturalis. Archiv für Naturphilosophie und die Philosophischen Grenzgebiete der Exakten Wissenschaften und Wissenschaftsgeschichte. (Meisenheim-Glan)

Philos. Quart. The Philosophical Quarterly. (Edinburgh)

Philos. Sci. Philosophy of Science. (Baltimore, Md.)

Philos. Studies. Philosophical Studies. (Dordrecht)

Philos. Trans. Roy. Soc. London Ser. A. Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)

Phys. A. Physica. A. Europhysics Journal. (Amsterdam) (Formerly: *Physica*)

Phys. B + C. Physica B + C. Europhysics Journal. B: Low Temperature and Solid State Physics. C: Atomic, Molecular and Plasma Physics, Optics. (Amsterdam)

Phys. Fluids. The Physics of Fluids. (New York)

Phys. Lett. A. Physics Letters. A. (Amsterdam)

Phys. Lett. B. Physics Letters. B. (Amsterdam)

Phys. Norveg. Physica Norvegica. (Oslo)

Phys. Rep. Physics Reports. Section C of *Physics Letters.* (Amsterdam)

Phys. Rep. Kumamoto Univ. Physics Reports of the Kumamoto University. (Kumamoto)

Phys. Rev. A. Physical Review. A. General Physics. (New York)

Phys. Rev. B. Physical Review. B. Solid State. (New York)

Phys. Rev. C. Physical Review. C. Nuclear Physics. (New York)

Phys. Rev. D. Physical Review. D. Particles and Fields. (New York)

Phys. Rev. Lett. Physical Review Letters. (New York)

Phys. Scripta. Physica Scripta. (Stockholm)

Phys. Status Solidi (B). Physica Status Solidi. B. Basic Research. (Berlin)

Physis–Riv. Internaz. Storia Sci. Physis. Rivista Internazionale di Storia della Scienza. (Florence)

Pi Mu Epsilon J. Pi Mu Epsilon Journal. (Norman, Okla.)

Plovdiv. Univ. Naučn. Trud. Plovdivski Universitet. Naučni Trudove. (Plovdiv)

Podstawy Sterowania. Podstawy Sterowania. Polska Akademia Nauk. Centrum Badań Naukowych w Woj. Katowickim. Zakład Systemów Automatyki Kompleksowej. (Gliwice)

Pokroky Mat. Fyz. Astronom. Jednota Československých Matematiků a Fyziku. Pokroky Matematiky, Fyziky a Astronomie. (Prague)

Polish Acad. Sci. Inst. Philos. Sociol. Bull. Sect. Logic. Polish Academy of Sciences. Institute of Philosophy and Sociology. Bulletin of the Section of Logic. (Wrocław)

Polska Biblio. Analit. Mech. Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polska Bibliografia Analityczna. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)

Portugal. Math. Portugaliae Mathematica. (Lisbon)

Portugal. Phys. Portugaliae Physica. (Lisbon)

Prace Inst. Maszyn Przepływowych. Prace Instytutu Maszyn Przepływowych. Transactions of the Institute of Fluid-Flow Machinery. (Warsaw)

**Prace Nauk. Inst. Cybernet. Techn. Politech. Wrocław. Ser. Konfer.* Wrocław. Politechnika. Instytut Cybernetyki Technicznej. Prace Naukowe Seria Konferencje. (Warsaw) [53, no. 2]

**Prace Nauk. Inst. Cybernet. Techn. Politech. Wrocław. Ser. Monograf.* Wrocław. Politechnika. Instytut Cybernetyki Technicznej. Prace Naukowe Seria Monografie. (Warsaw) [53, no. 2]

**Prace Nauk. Inst. Cybernet. Techn. Wrocław. Ser. Stud. i Materiały.* Wrocław. Politechnika. Instytut Cybernetyki Technicznej. Prace Naukowe Seria Studia i Materiały. (Warsaw) [53, no. 2]

Prace Nauk Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Monograf. Prace Naukowe Instytutu Matematyki i Fizyki Teoretycznej Politechniki Wrocławskiej. Seria Monografie. (Breslau) (Continued as: *Prace Nauk. Inst. Mat. Politech. Wrocław. Ser. Monograf.*) [54, no. 1]

**Prace Nauk. Inst. Mat. Politech. Wrocław. Ser. Monograf.* Prace Naukowe Instytutu Matematyki Politechniki Wrocławskiej. Seria Monografie. (Breslau) (Formerly: *Prace Nauk. Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Monograf.*) [54, no. 1]

Prace Nauk. Inst. Mat. Politech. Wrocław. Ser. Stud. i Materiały. Politechniki Wrocławskiej. Instytutu Matematyki. Prace Naukowe. Seria Studia i Materiały. (Wrocław)

**Prague Bull. Math. Linguist.* Prague Bulletin of Mathematical Linguistics. (Prague) [53, no. 1]

Prakt. Akad. Athēnōn. Πρακτικὰ τῆς Ἀκαδημίας Ἀθηνῶν. Praktikà tês Akademías Athenôn. (Athens)

**Pramāṇa.* Pramāṇa; a journal of physics. (Bangalore) [54, no. 1]

Praxis Math. Praxis der Mathematik. (Cologne)

Priblič. Metod. Rešen. Differencial'. Uravnen. Približennye Metody Rešenija Differencial'nyh Uravnenij. (Kiev)

Pribory i Sistemy Avtomat. Pribory i Sistemy Avtomatiki. (Kharkov)

Pribory i Sistemy Upravlenija. Pribory i Sistemy Upravlenija. (Moscow)

Prikl. Mat. i Programmirovanie. Akademija Nauk Moldavskoĭ SSR. Institut Matematiki s Vyčislitel'nym Centrom. Prikladnaja Matematika i Programmirovanie. (Kishinev)

Prikl. Mat. Meh. Akademija Nauk SSSR. Otdelenie Tehničeskih Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehanika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)

Prikl. Meh. Akademija Nauk Ukrainskoĭ SSR. Otdelenie Matematiki, Mehaniki i Kibernetiki. Prikladnaja Mehanika. (Kiev) (Translated as: *Soviet Appl. Mech.*)

Primenen. Mat. Ėkonom. Leningradskiĭ Ordena Lenina Gosudarstvennyĭ Universitet im. A. A. Ždanova. Kafedra i Laboratorija Ėkonomiko-Matematičeskih Metodov. Primenenie Matematiki v Ėkonomike. (Leningrad)

Primenen. Metodov Vyčisl. Mat. i ĖVM v Tehn.-Ėkonom. Rasčet. Kazanskiĭ Gosudarstvennyĭ Universitet im. V. I. Ul'janova-Lenina. Trudy Vyčislitel'nogo Centra. Primenenie Metodov Vyčislitel'noĭ Matematiki i ĖVM v Tehniko-Ėkonomičeskih Rasčetah. (Kazan)

Primenen. Metodov Vyčisl. Mat. i Vyčisl. Tehn. dlja Rešenija Naučno-Issled. i Narodnohozjaĭstv. Zadač. Vyčislitel'nyĭ Centr Voronežskogo Gosudarstvennogo Universiteta im. Leninskogo Komsomola. Primenenie Metodov Vyčislitel'noĭ Matematiki i Vyčislitel'noĭ Tehniki dlja Rešenija Naučno-Issledovatel'skih i Narodnohozjaĭstvennyh Zadač. (Voronezh)

Prirod.-Mat. Fak. Univ. Kiril i Metodij Skopje Godišen Zb. Prirodno-Matematička Fakultet na Univezitetot Kiril i Metodij Skopje. Godišen Zbornik. (Skopje)

Probleme der Kybernetik. Probleme der Kybernetik. (Berlin) (Translation of *Problemy Kibernet.*)

**Problemi Tehn. Kibernet.* Problemi na Tehničeskata Kibernetika. Problems of Engineering Cybernetics. (Sofia) [53, no. 2]

Problems of Control and Information Theory/Problemy Upravlenija i Teorii Informacii. Problems of Control and Information Theory. Problemy Upravlenija i Teorii Informacii. (Budapest)

Problems of Information Transmission. Problems of Information Transmission. (New York) (Translation of *Problemy Peredači Informacii*)

Problemy Kibernet. Problemy Kibernetiki. (Moscow) (Translated as *Probleme der Kybernetik*)

Problemy Mat. Anal. Složn. Sistem. Voronežskiĭ Gosudarstvennyĭ Universitet. Problemy Matematičeskogo Analiza Složnyh Sistem. (Voronezh)

Problemy Peredači Informacii. Akademija Nauk SSSR. Institut Problem Peredači Informacii Akademii Nauk SSSR. Problemy Peredači Informacii. (Moscow) (Translated as: *Problems of Information Transmission*)

**Problemy Slučajn. Poiska.* Akademija Nauk Latviĭskoĭ SSR. Institut Ėlektroniki i Vyčislitel'noĭ Tehniki. Problemy Slučajnogo Poiska. (Riga) [54, no. 1]

**Problemy Teor. Gravitacii i Ėlement. Častic.* Problemy Teorii Gravitacii i Ėlementarnyh Častic. (Moscow) [54, no. 3]

Proc. Amer. Math. Soc. Proceedings of the American Mathematical Society. (Providence, R. I.)

Proc. Edinburgh Math. Soc. Proceedings of the Edinburgh Mathematical Society. (Edinburgh) (Contains *Proc. Edinburgh Math. Soc. Edinburgh Math. Notes*)

Proc. Edinburgh Math. Soc. Edinburgh Math. Notes. Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh) (Included in *Proc. Edinburgh Math. Soc.*)

Proc. Fac. Sci. Tokai Univ. Proceedings of the Faculty of Science of Tokai University. (Tokyo)

Proc. IEEE. Institute of Electrical and Electronics Engineers. Proceedings. (New York)

Proc. Indian Acad. Sci. Sect. A. Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)

Proc. Indian Nat. Sci. Acad. Part A. Proceedings of the Indian National Science Academy. Part A. Physical Sciences. (New Delhi)

Proc. Inst. Elec. Engrs. Proceedings of the Institution of Electrical Engineers. Electronics. Power. Control & Science. (London)

Proc. Inst. Statist. Math. The Proceedings of the Institute of Statistical Mathematics. (Tokyo)

Proc. Japan Acad. Proceedings of the Japan Academy. (Tokyo) (Continued as: *Proc. Japan Acad. Ser. A Math. Sci.* and *Proc. Japan Acad. Ser. B Phys. Biol. Sci.*) [54, no. 5]

**Proc. Japan Acad. Ser. A Math. Sci.* Japan Academy. Proceedings. Series A. Mathematical Sciences. (Tokyo) (Formerly: *Proc. Japan Acad.*) [54, no. 5]

**Proc. Japan Acad. Ser. B Phys. Biol. Sci.* Japan Academy. Proceedings. Series B. Physical and Biological Sciences. (Tokyo) (Formerly: *Proc. Japan Acad.*) [54, no. 5]

Proc. London Math. Soc. Proceedings of the London Mathematical Society. (London)

Proc. Math. Phys. Soc. Egypt. Proceedings of the Mathematical and Physical Society. (Cairo)

Proc. Nat. Acad. Sci. India Sect. A. Proceedings of the National Academy of Sciences, India. Section A. (Allahabad)

Proc. Nat. Acad. Sci. U.S.A. Proceedings of the National Academy of Sciences of the United States of America. (Washington, D. C.)

Proc. Pakistan Statist. Assoc. Proceedings of the Pakistan Statistical Association. (Lahore)

Proc. Rajasthan Acad. Sci. The Proceedings of the Rajasthan Academy of Sciences. (Pilani)

Proc. Roy. Irish Acad. Sect. A. Proceedings of the Royal Irish Academy. Section A. (Dublin)

Proc. Roy. Soc. Canada (Formerly: *Trans. Roy. Soc. Canada.*)

Proc. Roy. Soc. Edinburgh Sect. A. Proceedings of the Royal Society of Edinburgh. Section A. Mathematical and Physical Sciences. (Edinburgh)

Proc. Roy. Soc. London Ser. A. Proceedings of the Royal Society. London. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. Ser. A*)

Proc. Roy. Soc. Ser. A. Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. London Ser. A*)

Proc. Steklov Inst. Math. Proceedings of the Steklov Institute of Mathematics. (Providence, R. I.) (Translation of *Trudy Mat. Inst. Steklov.*)

Proc. (Trudy) P. N. Lebedev Phys. Inst. Proceedings (Trudy) of the P. N. Lebedev Physics Institute. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)

Proc. West Virginia Acad. Sci. West Virginia Academy of Science. Proceedings. (Morgantown, W. Va.)

Processy Optimal. Upravlenija Trudy Sem. I Sekcija. See *Differencial'nye Uravnenija i Primenen.–Trudy Sem. Processy Optimal. Upravlenija I Sekcija.*

Processy Optimal. Upravlenija Trudy Sem. II Sekcija. See *Mat. Metody v Social. Nauk.–Trudy Sem. Processy Optimal. Upravlenija II Sekcija.*

Processy Optimal. Upravlenija Trudy Sem. V Sekcija. See *Statist. Problemy Upravlenija–Trudy Sem. Processy Optimal. Upravlenija V Sekcija.*

Progr. Math. See *Shuxue Jinzhan.*

Progr. Math. (Allahabad). Academy for Progress of Mathematics of the University of Allahabad. Progress of Mathematics. (Allahabad)

Progr. Theoret. Phys. Progress of Theoretical Physics. (Kyoto)

•*Programming and Comput. Software.* Programming and Computer Software. (New York) (Translation of *Programmirovanie*) [54, no. 3]

•*Programmirovanie.* Akademija Nauk SSSR. Programmirovanie. (Moscow) (Translated as: *Programming and Comput. Software*) [54, no. 5]

Przegląd Statyst. Polska Akademia Nauk. Komitet Statistykii Ekonometrii. Przegląd Statystyczny. (Warsaw)

Pskov. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap. Ministerstvo Prosveščenija RSFSR. Pskovskiĭ Pedagogičeskiĭ Institut. Fiziko-Matematičeskiĭ Fakul'tet. Učenye Zapiski. (Pskov)

Psychometrika. Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chicago, Ill.)

Pubbl. IAC. Istituto per le Applicazioni del Calcolo del Consiglio Nazionale delle Ricerche. Pubblicazioni. (Rome)

•*Pubbl. Ist. Mat. Appl. Fac. Ingegneria Univ. Stud. Roma.* Università degli Studi di Roma. Facoltà di Ingegneria. Instituto di Matematica Applicata. Pubblicazioni. (Rome) [54, no. 2]

Publ. Centre Rech. Math. Pures. Publications du Centre de Recherches en Mathématiques Pures. (Neuchâtel)

Publ. Dép. Math. (Lyon). Publications du Département de Mathématiques. Faculté des Sciences de Lyon. (Lyon)

Publ. Économétriques. Publications Économétriques. (Paris)

Publ. Inst. Math. (Beograd). Institut Mathématique. Publications. Nouvelle Série. (Belgrade)

Publ. Inst. Statist. Univ. Paris. Publications de l'Institut de Statistique de l'Université de Paris. (Paris)

Publ. Math. Debrecen. Universitatis Debreceniensis. Institutum Mathematicum. Publicationes Mathematicae. (Debrecen)

Publ. Math. Univ. Bordeaux. Université de Bordeaux. Publications Mathématiques. (Talence)

Publ. Res. Inst. Math. Sci. Kyoto University. Research Institute for Mathematical Sciences. Publications. (Kyoto)

Publ. Sém. Géom. Univ. Neuchâtel Sér. 2. Publications du Séminaire de Géometrie de l'Université de Neuchâtel. Série 2. (Neuchâtel)

Publ. Sém. Géom. Univ. Neuchâtel Sér. 3. Publications du Seminaire de Géometrie de l'Université de Neuchâtel. Série 3. (Neuchâtel)

•*Publ. Tehn. Fak. u Sarajevu.* Publikacije Tehničkog Fakulteta u Sarajevu. (Sarajevo) [53, no. 2]

Punjab Univ. J. Math. (Lahore). Punjab University. Journal of Mathematics. (Lahore)

Pure Appl. Math. Sci. Pure and Applied Mathematika Sciences. (Saharanpur)

•*Quaestiones Math.* Quaestiones Mathematicae. (Pretoria) [54, no. 1]

Quart. Appl. Math. Quarterly of Applied Mathematics. (Providence, R. I.)

Quart. J. Math. Oxford Ser. The Quarterly Journal of Mathematics. Oxford. Second Series. (Oxford)

Quart. J. Mech. Appl. Math. The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)

Rad Jugoslav. Akad. Znan. Umjet. Rad Jugoslavenske Akademije Znanosti i Umjetnosti. (Zagreb)

Radio Engrg. Electron. Phys. Radio Engineering and Electronic Physics. Translation of *Radiotehnika i Èlektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotehn. i Èlektron.*)

Radio Sci. Radio Science. (Washington, D. C.)

Radiophys. and Quantum Electronics. Radiophysics and Quantum Electronics. A translation of the *Izvestija Vysših Učebnyh Zavedeniĭ Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Radiofizika*)

Radiotehn. (Har'kov). Har'kovskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyĭ Universitet im. A. M. Gor'kogo. Radiotehnika. (Kharkov)

Radiotehn. i Èlektron. Akademija Nauk SSSR. Radiotehnika i Èlektronika. (Moscow) (Translated as: *Radio Engrg. Electron. Phys.*)

•*RAIRO Anal. Numér.* RAIRO Analyse Numérique (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Anal. Numér.*) [54, no. 3]

•*RAIRO Automat.* RAIRO Automatique. (Paris) (Formerly; *Rev. Française Automat. Informat. Recherche Opérationnelle Sér Jaune*) [54, no. 3]

•*RAIRO Informat.* RAIRO Informatique. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Bleue*) [54, no. 3]

•*RAIRO Informat. Théor.* RAIRO Informatique Théorique. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Informat. Theor.*) [54, no. 4]

•*RAIRO Recherche Opér.* RAIRO Recherche Opérationnelle. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle Ser. Verte*) [54, no. 3]

Rajasthan Univ. Studies Statist. Rajasthan University Studies in Statistics. Science Series. (Rajasthan)

Ranchi Univ. Math. J. Ranchi University Mathematical Journal. (Ranchi)

Ratio. Ratio. (Oxford)

RCA Rev. RCA Review. (Princeton, N. J.)

Recherche Aérospat. La Recherche Aérospatiale. (Châtillon)

Regelungstech. Regelungstechnik. Zeitschrift für Steuerung, Regelung und Prozeßdatenverarbeitung. (Munich)

Relevance Logic Newslett. Relevance Logic Newsletter. (Edwardsville, Ill.)

•*Rend. Accad. Naz. XL.* Accademia Nazionale dei XL. Rendiconti. (Rome) [53, no. 1]

Rend. Accad. Sci. Fis. Mat. Napoli. Società Nazionale di Scienze, Lettere ed Arti in Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)

Rend. Circ. Mat. Palermo. Rendiconti del Circolo Matematico di Palermo. (Palermo)

Rend. Ist. Mat. Univ. Trieste. Rendiconti dell'Istituto di Matematica dell'Università di Trieste. (Trieste)

Rend. Mat. Rendiconti di Matematica. Universita degli Studia di Roma. Istituto Matematica Guido Castelnuovo. Istituto di Matematica Applicata. Istituto Nazionale di Alta Matematica. (Rome)

Rend. Sem. Fac. Sci. Univ. Cagliari. Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)

Rend. Sem. Mat. Fis. Milano. Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)

Rend. Sem. Mat. Univ. e Politec. Torino. Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica") Università e Politecnico di Torino. (Torino)

Rend. Sem. Mat. Univ. Padova. Rendiconti del Seminario Matematico dell'Università di Padova. (Padua)

Rep. Comput. Centre Univ. Tokyo. Report of the Computer Centre. University of Tokyo. (Tokyo)

Rep. Fac. Sci. Engrg. Saga Univ. Math. Reports of the Faculty of Science and Engineering. Saga University. Mathematics. (Saga)

Rep. Fac. Sci. Kagoshima Univ. Reports of the Faculty of Science of Kagoshima University. (Kagoshima)

Rep. Fac. Sci. Shizuoka Univ. Reports of the Faculty of Science. Shizuoka University. (Shizuoka)

Rep. Inst. High Speed Mech. Tôhoku Univ. Tôhoku University. Institute of High Speed Mechanics. Reports. (Sendai)

Rep. Math. Logic. Reports on Mathematical Logic. (Katowice)

Rep. Mathematical Phys. Reports on Mathematical Physics. (Amsterdam)

Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs. Reports of Statistical Application Research. Union of Japanese Scientists and Engineers. (Tokyo)

Rep. Univ. Electro-Commun. Reports of the University of Electro-Communications. (Tokyo)

Repúb. Venezuela Bol. Acad. Ci. Fís. Mat. Natur. República de Venezuela. Boletin de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)

Res. Bull. Fac. Ed. Oita Univ. The Research Bulletin of the Faculty of Education. Oita University. (Oita)

Res. Bull. Meisei Univ. Meisei University. Research Bulletin. (Tokyo)

Res. Bull. Panjab Univ. Research Bulletin of the Panjab University. (Chandigarh)

Res. Inst. Fund. Information Sci. Res. Rep. Kyushu University. Research Institute of Fundamental Information Science. Research Report. (Fukuoka)

Res. Notes Memoranda Appl. Geom. Post-RAAG. Research Association of Applied Geometry. Research Notes and Memoranda of Applied Geometry in Post-RAAG. (Tokyo)

Res. Rep. Anan Tech. College. Research Reports of the Anan Technical College. (Anan)

Res. Rep. Kushiro Tech. College. Research Reports. Kushiro Technical College. (Hokkaido)

**Res. Rep. Miyagi Tech. College.* Miyagi Technical College. Research Reports. (Miyagi)

Res. Rep. Nagoaka Tech. College. Research Reports of the Nagaoka Technical College. (Nagaoka)

Res. Rep. Tokyo Electrical Engrg. College. Research Reports of Tokyo Electrical Engineering College. (Tokyo)

Rev. Acad. Ci. Zaragoza. Revista de la Academia de Ciências Exactas, Fisico-Químicas y Naturales de Zaragoza. (Zaragoza)

Rev. Anal. Numér. Teoria Aproximației. Revista de Analiză Numerică și Teoria Aproximației. (Cluj)

Rev. Anal. Numér. Théorie Approximation. Revue d'Analyse Numérique et de la Théorie de l'Approximation. (Cluj)

Rev. CETHEDEC. Revue du Centre d'Études Théoriques de la Détection et des Communications. (Paris)

Rev. Ci. (Lima). Revista de Ciencias. (Lima)

**Rev. Ci. Mat. Univ. Lourenço Marques.* Revista de Ciências Matemáticas. Universidade de Lourenço Marques. (Maputo) (Formerly: *Rev. CiMat. Univ. Lourenço Marques Sér. A*) [54, no. 6]

Rev. Ci. Mat. Univ. Lourenço Marques Sér. A. Revista de Ciências Matématicas Universidade de Lourenço Marques. Série A. (Lourenço Marques) (Continued as: *Rev. Ci. Mat. Univ. Lourenço Marques*) [54, no. 6]

Rev. Colombiana Mat. Revista Colombiana de Matemáticas. (Bogotá)

Rev. Econom. Statist. The Review of Economics and Statistics. (Cambridge, Mass.)

Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Bleue. Revue Française d'Automatique, Informatique et Recherche Opérationnelle Série Bleue. (Paris) (Continued as: *RAIRO Informat.*) [54, no. 3]

Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Jaune. Revue Française d'Automatique, Informatique et Recherche Opérationnelle Série Jaune. (Paris) (Continued as: *RAIRO Automat.*) [54, no. 3]

Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Anal. Numér. Revue Française d'Automatique, Informatique et Recherche Opérationnelle Série Rouge. Analyse Numérique. (Paris) (Continued as: *RAIRO Anal. Numér.*) [54, no. 3]

Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge Informat. Théor. (Paris) (Continued as: *RAIRO Informat. Théor.*) [54, no. 4]

Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Verte. Revue Française d'Automatique, Informatique et Recherche Opérationnelle Série Verte. (Paris) (Continued as: *RAIRO Recherche Opér.*) [54, no. 3]

Rev. Histoire Sci. Appl. Revue d'Histoire des Sciences et de leurs Applications. (Paris)

Rev. Internat. Philos. Revue Internationale de Philosophie. (Wetteren)

Rev. Mat. Hisp.-Amer. Revista Matemática Hispano-Americana. (Madrid)

**Rev. Mexicana Astronom. Astrofís.* Revista Mexicana de Astronomía y Astrofísica. (Mexico City) [54, no. 1]

Rev. Méxicana Fís. Revista Méxicana de Física. (Mexico City)

Rev. Modern Phys. Reviews of Modern Physics. (New York)

Rev. Questions Sci. Revue des Questions Scientifiques. (Louvain)

Rev. Real Acad. Ci. Exact. Fís. Natur. Madrid. Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Revista. (Madrid)

Rev. Roumaine Math. Pures Appl. Académie de la République Populaire Roumaine. Revue Roumaine de Mathématiques Pures et Appliquées. (Bucharest)

Rev. Roumaine Phys. Revue Roumaine de Physique. (Bucharest)

Rev. Roumaine Sci. Tech. Sér. Électrotech. Énergét. Revue Roumaine des Sciences Techniques. Série Électrotechnique et Énergétique. (Bucharest)

Rev. Roumaine Sci. Tech. Sér. Méc. Appl. Revue Roumaine des Sciences Techniques. Série de Mécanique Appliquée. (Bucharest)

Rev. Statist. Appl. Revue de Statistique Appliquée. Centre d'Enseignement et de Recherche de Statistique Appliquée. (Paris)

Rev. Tech. Thomson-CSF. Revue Technique Thomson-CSF. (Paris)

Rev. Un. Mat. Argentina. Revista de la Unión Matemática Argentina. (Buenos Aires)

Rice Univ. Studies. Rice University Studies. (Houston, Tex.)

Ricerche Mat. Ricerche di Matematica. (Naples)

Rīgas Politehn. Inst. Zinātn. Raksti. Rīgas Politehniskais Institūts. Rižskiĭ Politehničeskiĭ Institut. Učenye Zapiski. Rīgas Politehniskais Institūts Zinātniskie Raksti. (Riga)

Riv. Mat. Univ. Parma. Rivista di Matematica della Università di Parma. (Parma)

Riv. Nuovo Cimento. Rivista del Nuovo Cimento. (Bologna)

Rižsk. Inst. Inž. Graždan. Aviacii. Rižskiĭ Institut Inženerov Graždanskoĭ Aviacii im. Leninskogo Komsomola. (Riga)

Rjazansk. Gos. Ped. Inst. Učen. Zap. Rjazanskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Ryazan)

Rocky Mountain J. Math. The Rocky Mountain Journal of Mathematics. (Missoula, Mont.)

**Rostock. Math. Kolloq.* Rostocker Mathematisches Kolloquium. (Rostock) [53, no. 5]

Rostov.-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap. Rostovskiĭ-na-Donu Gosudarstvennyĭ Pedagogičeskiĭ Institut. Fiziko-Matematičeskiĭ Fakul'tet. Učenye Zapiski. (Rostov-on-Don)

Rostov.-na-Donu Gos. Univ. Učen. Zap. Rostovskiĭ-na-Donu Gosudarstvennyĭ Universitet. Učenye Zapiski. (Rostov-on-Don)

Rozpravy Československe Akad. Věd Řada Mat. Přírod. Věd. Rozpravy Československé Akademie Věd Řada Matematických a Přírodních Věd. (Prague)

Rozprawy Elektrotech. Polska Akademia Nauk. Instytut Technologii Elektronowej. Rozprawy Elektrotechniczne. (Warsaw)

Rozprawy Inż. Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Rozprawy Inżynierskie. (Warsaw)

Rozprawy Politech. Poznań. Politechnika Poznańska. Rozprawy. (Poznań)

RSb Èkonom. Promyšl. D. Akademija Nauk SSSR. Vsesojuznyĭ Institut Naučnoĭ i Tehničeskoĭ Informacii. Referativnyĭ Sbornik. Èkonomika Promyšlennosti. D. Primenenie Matematičeskih Metodov v Èkonomičeskih Issledovanijah i Planirovanii. (Moscow)

Russian Math. Surveys. Russian Mathematical Surveys. A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskih Nauk.* (London) (Translation of *Uspehi Mat. Nauk*)

RŽAvtomat. Telemeh. i Vyčisl. Tehn. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. Referativnyĭ Žurnal. Avtomatika, Telemehanika i Vyčislitel'naja Tehnika. (Moscow)

RŽFiz. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. Referativnyĭ Žurnal. Fizika. (Moscow)

**RŽ Informat.* Akademija Nauk SSSR. Vsesojuznyĭ Institut Naučnoĭ i Tehničeskoĭ Informacii. Referativnyĭ Žurnal. Informatika. (Moscow) [53, no. 4]

RŽKibernet. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. Referativnyĭ Žurnal. Kibernetika. (Moscow)

RŽMat. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. Referativnyĭ Žurnal. Matematika. (Moscow)

RŽMeh. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. Referativnyĭ Žurnal. Mehanika. (Moscow)

Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom. Sakharthvelos SSR Mecnierebatha Akademis Gamothvlithi Centris Šromebi. (Tbilisi) (Also listed as: *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR*)

Sakharth. SSR Mecn. Akad. Marthw. Sistem. Inst. Šrom. Sakharthvelos SSR Mecnierebatha Akademia. Marthwis Sistemebis Instituti Šromebi. (Tbilisi) (Also listed as: *Trudy Inst. Sistem Upravlenija Akad. Nauk Gruzin. SSR*)

Sakharth. SSR Mecn. Akad. Math. Inst. Šrom. Sakharthvelos SSR Mecnierebatha Akademia A. Razmadzis Saḫelobis Thbilisis Mathematikis Institutis. Šromebei. (Tbilisi) (Also listed as: *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze*)

Sakharth. SSR Mecn. Akad. Moambe. Sakharthvelos SSR Mecnierebatha Akademiis Moambe. (Tbilisi) (Also listed as: *Soobšč. Akad. Nauk Gruzin. SSR*)

**Sakharth. SSR Ped. Inst. Šrom. Phiz.-Math. Ser.* Sakharthvelos SSR Pedagogiuri Institutebis. Šromebi. Phizika–Mathematikis Seria. (Tbilisi) (Also listed as: *Trudy Ped. Inst. Gruzin. SSR Ser. Fiz. i Mat.*) [53, no. 2]

Sankhyā Ser. A. Sankhyā (Statistics). The Indian Journal of Statistics. Series A. (Calcutta)

Sankhyā Ser. B. Sankhyā (Statistics). The Indian Journal of Statistics. Series B. (Calcutta)

Saratov. Gos. Ped. Inst. Učen. Zap. Saratovskiĭ Gosudarstvennyĭ-Pedagogičeskiĭ Institut. Učenye Zapiski. (Saratov)

Sb. Naučn. Soobšč. Dagestan. Gos. Univ. Sbornik Naučnyh Soobščeniĭ. Dagestanskiĭ Gosudarstvennyĭ Universitet im. V. I. Lenina (Makhachkala)

Sb. Prací Ped. Fak. v Ostravě Ser. A. Sborník Prací Pedagogické Fakulty v Ostravě. Seria A. (Ostrava)

Sb. Prací Přírodověd. Fak. Univ. Palackého v Olomouci Fyz. Sbornik Prací Přírodovědecké Fakulty University Palackého v Olomouci. Obor Fyzika. (Prague)

Sb. Prací Přírodověd. Fak. Univ. Palackého v Olomouci Mat. Sborník Prací Přírodovědecké Fakulty University Palackého v Olomouci. Obor Matematika. (Prague)

**Sb. Trudov Inst. Problem Upravlen.* Institut Problem Upravlenina. Sbornik Trudov. (Moscow) [54, no. 3]

Sb. Trudov Odess. Èlektrotehn. Inst. Svjazi. Sbornik Trudov Odesskogo Èlektrotehničeskogo Instituta Svjazi im. A. S. Popova. (Odessa)

Sb. Trudov Vsesojuz. Zaočn. Politehn. Inst. Sbornik Trudov Vsesojuznogo Zaočnogo Politehničeskogo Instituta. (Moscow)

Sb. Vysoké. Učeni Tech. v Brně. Sborník Vysokého Učeni Technického v Brně. (Brno)

Scand. Actuar. J. Scandinavian Actuarial Journal. (Uppsala)

Scand. J. Statist. Scandinavian Journal of Statistics. Theory and Applications. (Stockholm)

Schr. Math. Inst. Univ. Münster. Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)

Sci. Bull. Fac. Ed. Nagasaki Univ. Science Bulletin of the Faculty of Education. Nagasaki University. (Nagasaki)

Sci. Hist. Scientiarum Historia. Driemaandelijks Tijdschrift voor de Geschiedenis van de Geneeskunde, Wiskunde en Natuurwetenschappen. (Antwerp)

Sci. Papers College Gen. Ed. Univ. Tokyo. Scientific Papers of the College of General Education. University of Tokyo. (Tokyo)

Sci. Rep. College Gen. Ed. Osaka Univ. Science Reports. College of General Education. Osaka University. (Osaka)

Sci. Rep. Fac. Ed. Gifu Univ. Natur. Sci. Science Reports of the Faculty of Education. Gifu University. Natural Science. (Gifu)

Sci. Rep. Hirosaki Univ. Science Reports of the Hirosaki University. (Hirosaki)

Sci. Rep. Kagoshima Univ. Science Reports of Kagoshima University. (Kagoshima)

Sci. Rep. Kanazawa Univ. The Science Reports of the Kanazawa University. (Kanazawa)

Sci. Rep. Niigata Univ. Ser. A. Science Reports of Niigata University. Series A. Mathematics. (Niigata)

Sci. Rep. Saitama Univ. Ser. A. The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)

Sci. Rep. Tokyo Kyoiku Daigaku Sect. A. Science Reports of the Tokyo Kyoiku Daigaku (Tokyo University of Education). Section A. (Tsukuba)

Sci. Rep. Tokyo Woman's Christian College. Science Reports of Tokyo Woman's Christian College. (Tokyo)

Sci. Rep. Yokohama Nat. Univ. Sect. I. Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)

Sci. Rev. Scienca Revuo. (Belgrade)

Sci. Sinica. Scientia Sinica. (Peking)

Science. American Association for the Advancement of Science. Science. (Washington, D. C.)

Scientia (Milano). Scientia. Rivista Internazionale di Sintesi Scientifica. (Milano)

Scientia (Valparaíso). Universidad Técnica Federico Santa Maria. Scientia. (Valparaíso)

Scripta Fac. Sci. Natur. UJEP Brunensis–Math. Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Mathematica. (Brno)

Scripta Fac. Sci. Natur. UJEP Brunensis–Phys. Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Physica. (Brno)

Sem. Inst. Prikl. Mat. Annotac. Dokladov. Tbilisskiĭ Universitet. Seminar Instituta Prikladnoi Matematiki. Annotacii Dokladov. (Tbilisi) See *Gamoqeneb. Math. Inst. Sem. Mohsen. Anotacie.*

Semigroup Forum. Semigroup Forum. (New York)

Serdica. Serdica. Bulgaricae Mathematicae Publicationes. (Sofia)

SIAM J. Appl. Math. SIAM Journal on Applied Mathematics. (Philadelphia, Pa.)

SIAM J. Comput. SIAM Journal on Computing. (Philadelphia, Pa.)

SIAM J. Control Optimization. Society for Industrial and Applied Mathematics. Journal on Control and Optimization. (Philadelphia, Pa.)

SIAM J. Math. Anal. SIAM Journal on Mathematical Analysis. (Philadelphia, Pa.)

SIAM J. Numer. Anal. SIAM Journal on Numerical Analysis. (Philadelphia, Pa.)

SIAM Rev. SIAM Review. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)

Siberian Math. J. Siberian Mathematical Journal. (New York) (Translation of *Sibirsk. Mat. Ž.*)

Sibirsk. Mat. Ž. Akademija Nauk SSSR. Sibirskoe Otdelenie. Sibirskiĭ Matematičeskiĭ Žurnal. (Moscow) (Translated as: *Siberian Math. J.*)

Siemens Forsch.- und Entwicklungsber. Siemens Forschungs- und Entwicklungsberichte. Research and Development Reports. (Berlin)

Simon Stevin. Simon Stevin. Wis- en Natuurkundig Tijdschrift. (Groningen)

Simulation. Society for Computer Simulation. Technical Journal. Simulation. (La Jolla, Calif.)

Singapore Statist. Bull. Singapore Statistical Bulletin. (Singapore)

Sitzungsber. Heidelb. Akad. Wiss. Math.-Natur. Kl. Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg)

Sitzungsber. Sächs. Akad. Wiss. Leipzig. Math.-Natur. Kl. Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Berlin)

Skr. Norske Vid.-Akad. Oslo I. Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo) (Continued as: *Norske Vid.-Akad. Oslo Mat.-Natur. Kl. Skr.*) [54, no. 6]

**SM Arch.* Solid Mechanics Archives. (Leyden) [54, no. 1]

Smolensk. Gos. Ped. Inst. Učen. Zap. Smolenskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. Smolenskiĭ Matematičeskiĭ Sbornik. (Smolensk)

Smolensk. Mat. Sb. See *Smolensk. Gos. Ped. Inst. Učen. Zap.*

Soc. Actuar. Trans. Society of Actuaries. Transactions. (Chicago, Ill.)

Soc. Sci. Fenn. Comment. Phys.-Math. Societas Scientiarum Fennica. Commentationes Physico-Mathematicae. (Helsinki)

Soobšč. Akad. Nauk Gruzin. SSR. Soobščenija Akademii Nauk Gruzinskoĭ SSR. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Moambe.*

Soobšč. Vyčisl. Mat. Akademija Nauk SSSR. Vyčislitel'nyĭ Centr. Soobščenija po Vyčislitel'noĭ Matematike. (Moscow)

Soochow J. Math. Natur. Sci. Soochow Journal of Mathematical and Natural Sciences. (Taipei)

South African Statist. J. South African Statistical Journal. (Cape Town)

Soviet Aeronaut. Soviet Aeronautics. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)

Soviet Appl. Mech. Soviet Applied Mechanics. (New York) (Translation of *Prikladna. Meh.*)

Soviet Astronom. Soviet Astronomy. A translation of *Astronomiceskiĭ Žurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Ž*)

Soviet Automat. Control. Soviet Automatic Control (New York) (Translation of *Avtomatika*)

Soviet J. Nuclear Phys. American Institute of Physics. Soviet Journal of Nuclear Physics. (New York) (Translation of *Jadernaja Fiz.*)

Soviet J. Particles and Nuclei. Soviet Journal of Particles and Nuclei. (New York) (Translation of *Fiz. Èlementar. Častic i Atom. Jadra*)

Soviet Math. Dokl. Soviet Mathematics. Doklady. A translation of the mathematics section of *Doklady Akademii Nauk SSSR.* (Providence, R. I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)

Soviet Math. (Iz. VUZ). Soviet Mathematics (Izvestija Vysših Učebnyh Zavedeniĭ. Matematika). (New York) (Translation of: *Izv. Vysš. Učebn. Zaved. Matematika*)

Soviet Physics Acoust. Soviet Physics. Acoustics. (A translation of *Akustičeskiĭ Žurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Ž.*)

Soviet Physics–Collection. Soviet Physics. Collection. (New York) (Translation of: *Litovsk. Fiz. Sb.*)

Soviet Physics Dokl. Soviet Physics. Doklady. A translation of the physics sections of *Doklady Akademii Nauk SSSR.* (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)

Soviet Physics J. Soviet Physics Journal. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Fizika*)

Soviet Physics JETP. Soviet Physics. JETP. A translation of *Ž. Èksperimental'noĭ i Teoretičeskoĭ Fiziki* of the USSR. (New York) (Translation of *Ž. Èksper. Teoret. Fiz.*)

Soviet Physics Uspekhi. Soviet Physics. Uspekhi. A translation of *Uspehi Fizičeskih Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspehi Fiz. Nauk*)

Statist. Hefte. Statistische Hefte. (Opladen)

Statist. Problemy Upravlenija–Trudy Sem. Processy Optimal. Upravlenija V Sekcija. Akademija Nauk Litovskoĭ SSR. Institut Fiziki i Matematiki. Institut Fiziko-Tehničeskih Problem Ènergetiki. Litovskaja Territorial'naja Gruppa NKAU SSR Meždunarodnoĭ Federacii po Avtomatičeskomu Upravleniju Litovskoĭ NII NTI i TÈI. Statističeskie Problemy Upravlenija. Trudy Seminara "Processy Optimal'nogo Upravlenija." V Sekcija. (Vilnius)

Statist. Theory Method Abstracts. Statistical Theory and Method Abstracts. (London) (Usually abbreviated as *STMA* in the text of *Math. Reviews*)

Statistica (Bologna). Statistica. (Bologna)

Statistica Neerlandica. Statistica Neerlandica. Orgaan van de Vereniging voor Statistiek. (The Hague)

STMA. Statistical Theory and Method Abstracts. (London)

Stochastic Processes Appl. Stochastic Processes and their Applications. (Amsterdam)

**Stochastica.* Stochastica. (Barcelona) [53, no. 4]

Stochastics. Stochastics. (New York)

**Strukturn. i Mat. Lingvistika.* Kievskiĭ Gosudstvennyĭ Universitet. Strukturnaja i Matematičeskaja Lingvistika. (Kiev) [54, no. 3]

Stud. Cerc. Econom. Studii şi Cercetări Economice. (Bucharest)

Stud. Cerc. Fiz. Studii şi Cercetări de Fizică. (Bucharest)

Stud. Cerc. Mat. Studii şi Cercetări Matematice. (Bucharest)

Stud. Cerc. Mec. Apl. Studii şi Cercetări de Mecanică Aplicată. (Bucharest)

Stud. Hist. Philos. Sci. Studies in History and Philosophy of Science. (London)

Studia Automat. Studia z Automatiki. Poznańskie Towarzystwo Przyjaciół Nauk. Wydział Nauk Technicznyh. Prace Komisji Automatyki. (Poznań)

Studia Leibnitiana. Studia Leibnitiana. Vierteljahrschrift für Philosophie und Geschichte der Wissenschaften. (Wiesbaden)

Studia Logica. Polska Akademia Nauk. Institut Filozofii i Socijologii. Studia Logica. (Wrocław)

Studia Math. Polska Akademia Nauk. Institut Matematyczny. Studia Mathematica. (Warsaw)

Studia Sci. Math. Hungar. Consilium Instituti Mathematici Academiae Scientiarum Hungaricae. Studia Scientiarum Mathematicarum Hungarica. (Budapest)

Studia Univ. Babeş-Bolyai Math. Universitatas Babeş-Bolyai. Studia. Mathematica. (Cluj) (Formerly: *Studia Univ. Babeş-Bolyai Ser. Math.-Mech.*)

Studia Univ. Babeş-Bolyai Ser. Math.-Mech. Studia Universitatis Babeş-Bolyai. Series Mathematica-Mechanica. (Cluj) (Continued as: *Studia Univ. Babeş-Bolyai Math.*)

Studia Univ. Babeş-Bolyai Ser. Phys. Studia Universitatis Babeş-Bolyai. Series Physica. (Cluj)

Studies in Appl. Math. Studies in Applied Mathematics. (Cambridge, Mass.)

Sudhoffs Arch. Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften. (Wiesbaden)

Sûgaku. Mathematical Society of Japan. Sûgaku (Mathematics). (Tokyo)

Sûgakushi Kenkyû. History of Mathematics Society of Japan. Sûgakushi Kenkyû (Journal of History of Mathematics of Japan). (Tokyo)

Su-hak kwa Mul-li. Academy of Science of the People's Democratic Republic of Korea. Research Center for Physics and Mathematics. Su-hak kwa Mul-li (Mathematics and Physics). (Pyŏngyang)

**Suken Kenkyu Ripôto.* Suken Kenkyu Ripôto. (Tokyo) [53, no. 3]

**Sûrikaisekikenkyûsho Kôkyûroku.* Sûrikaisekikenkyûsho Kôkyûroku. (Kyoto) [53, no. 4]

Sverdlovsk. Gos. Ped. Inst. Učen. Zap. Sverdlovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Sverdlovsk) (Continued as: *Sverdlovsk. Gos. Ped. Inst. Naučn. Trudy*)

Synthese. Synthese. An International Journal for Epistemology, Methodology and Philosophy of Science. (Dordrecht)

Systems and Control. Systems and Control (Shisutemu to Seigyo). (Kyoto)

Systems-Computers-Controls. Systems-Computers-Controls. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi.* See also: *Electron. Commun. Japan*)

Systems Sci. Wrocław Technical University. Systems Science. (Wrocław)

Szigma–Mat.-Közgazdasági Folyóirat. Szigma. Matematikai-Közgazdasági Folyóirat. (Budapest)

Tadžik. Gos. Univ. Trudy Meh.-Mat. Fak. Tadžikskiĭ Gosudarstvennyĭ Universitet im. V. I. Lenina. Trudy Mehaniko-Matematičeskogo Fakul'teta. (Dushanbe)

Tadžik. Gos. Univ. Učen. Zap. Tadžikskiĭ Gosudarstvennyĭ Universitet im. V. I. Lenina. Učenye Zapiski. Trudy Fiziko-Matematičeskogo Fakul'teta. Serija Matematičeskaja. (Dushanbe)

Tadžik. S.-h. Inst. Trudy. Tadžikskiĭ Sel'skohozjaĭstvennyĭ Institut i Tadžikskiĭ Gosudarstvennyĭ Universitet. Trudy. (Dushanbe)

**Tallin. Polŭtehn. Inst. Toimetised.* Tallinna Polŭtehnilise Instituudi Toimetised. (Tallin) (Formerly: *Tallin. Polŭtehn. Inst. Toimetised Seer. A*) [53, no. 4]

**Tallin. Polŭtehn. Inst. Toimetised Seer. A.* Tallinna Polŭtehnilise Instituudi Toimetised Seeria A. (Tallin) (Continued as: *Tallin. Polŭtehn. Inst. Toimetised*) [53, no. 4]

Tamkang J. Math. Tamkang Journal of Mathematics. (Taipei)

Tanulmányok–MTA Számitástechn. Automat. Kutató Int. Budapest. Tanulmányok. MTA Számitástechnikai és Automatizálási Kutató Intézet Budapest. (Budapest)

Tartu Riikl. Ül. Toimetised. Tartu Riikliku Ülikooli Toimetised. Učenye Zapiski Tartuskogo Gosudarstvennogo Universiteta. Acta et Commentationes Universitatis Tartuensis. Matemaatika ja Mehhaanikaalaseid Töid. Trudy po Matematike i Mehanike. (Tartu)

Taskent. Gos. Ped. Inst. Učen. Zap. Taškentskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. Nizami. Učenye Zapiski. (Tashkent)

Taškent. Gos. Univ.–Buharsk. Ped. Inst. Naučn. Trudy. Taškentskiĭ Gosudarstvennyĭ Universitet. Buharskiĭ Pedagogičeskiĭ Institut. Naučnye Trudy. (Tashkent)

Taskent. Gos. Univ. Naučn. Trudy. Taškentskiĭ Gosudarstvennyĭ Universitet im V. I. Lenina. Naučnye Trudy. (Tashkent)

Taškent. Inst. Inž. Železnodorož. Transporta Trudy. Taškentskiĭ Institut Inženerov Železnodorožnogo Transporta. Trudy. (Tashkent)

Taškent. Inst. Narod. Hoz. Naučn. Zap. Mat. v Priložen. Taškentskiĭ Institut Narodnogo Hozjaĭstva. Naučnye Zapiski. Matematika v Priloženijah. (Tashkent)

Taškent. Politehn. Inst. Naučn. Trudy. Taškentskiĭ Politehničeskiĭ Institut. Naučnye Trudy. Novaja Serija. (Tashkent)

Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Taškentskiĭ Tekstil'nyĭ Institut. Kafedra Vysšeĭ Matematiki. Sbornik Naučno-Issledovatel'skih Rabot. Serija Matematiki. (Tashkent)

Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy. Tbilsskiĭ Gosudarstvennyĭ Universitet. Institut Prikladnoĭ Matematiki. Trudy. (Tbilisi) See *Thbilis. Sahelmç Univ. Gamoqeneb. Math. Inst. Šrom.*

Tech. Rep. Inst. Atom. Energy Kyoto Univ. Technical Reports of the Institute of Atomic Energy. Kyoto University. (Kyoto)

Tech. Rep. Kansai Univ. Kansai University. Technology Reports. (Osaka)

Tech. Rep. Osaka Univ. Technology Reports of the Osaka University. (Osaka)

Technikgeschichte. Technikgeschichte. Verein Deutscher Ingenieure. (Düsseldorf)

Technometrics. Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences. (Princeton, N. J.)

Tellus. Svenska Geofysiska Föreningen. Tellus. A Quarterly Journal of Geophysics. (Uppsala)

Tensor. Tensor. New Series. The Tensor Society. (Tokyo)

Teor. Funkciĭ Funkcional. Anal. i Priložen. Har'kovskiĭ Ordena Trudovogo Krasnogo Znameni Gosudarstvennyĭ Universitet im. A. M. Gor'kogo. Teorija Funkciĭ, Funkcional'nyĭ Analiz i ih Priloženija. (Kharkov)

Teor. Verojatnost. i Mat. Statist. Teorija Verojatnosteĭ i Matematičeskaja Statistika. (Kiev) (Translated as: *Theory Probability and Math. Statist.*)

Teor. Verojatnost. i Primenen. Akademija Nauk SSSR. Teorija Verojatnosteĭ i ee Primenenija. (Moscow) (Translated as: *Theor. Probability Appl.*)

Teorema. Teorema. (Valencia)

Teoret. Èlektrotehn. L'vovskiĭ Gosudarstvennyĭ Universitet. Teoretičeskaja Èlektrotehnika. (Lvov)

Teoret. i Prikladna Meh. Harkĭvs'kiĭ Deržavnii Universitet im. O. M. Gor'kogo. Teoretična i Prikladna Mehanika. (Kharkov)

Teoret. i Priož. Meh. B"lgarska Akademija na Naukite. Teoretična i Priložna Mehanika. (Sofia)

Teoret. Mat. Fiz. Akademija Nauk SSSR. Teoretičeskaja i Matematičeskaja Fizika. (Moscow) (Translated as: *Theoret. and Math. Phys.*)

Teoret. Prikl. Mat. MVSSO URSR L'vivs'kiĭ Ordena Lenina Deržavnii Universitet im. Iv. Franka. Teoretična i Prikladna Matematika. (Lvov)

TESLA Electronics. TESLA Electronics. Quarterly Review of Czechoslovak Electronics and Telecommunications. (Prague)

Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom. Thbilisis Saḫelmçipho Universiteti Gamoqenebithi Mathematikis Instituti. Šromebi. (Tbilisi) (Also listed as: *Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy*)

Thbilis. Univ. Šrom. A. Thbilisis Universitetis Šromebi. A. Phizika-Mathematikisa de Sabunebismetqvelo Mecnierebani. (Tbilisi) (Also listed as: *Trudy Tbiliss. Univ. A*)

Theor. Comput. Sci. Theoretical Computer Science. (Amsterdam)

Theor. Probability Appl. Theory of Probability and its Applications. An English translation of the Soviet journal *Teorija Verojatnosteĭ i ee Primenenija.* (Philadelphia, Pa.) (Translation of *Teor. Verojatnost. i Primenen.*)

Theoret. and Math. Phys. Theoretical and Mathematical Physics. (New York) (Translation of *Teoret. Mat. Fiz.*)

**Theoret. Chim. Acta.* Theoretica Chimica Acta. (Berlin) [54, no. 1]

Theoret. Linguist. Theoretical Linguistics. (New York)

Theoret. Population Biology. Theoretical Population Biology. (New York)

Theoria. Theoria. A Swedish Journal of Philosophy. (Lund)

Theory and Decision. Theory and Decision. An International Journal for Philosophy and Methodology of the Social Sciences. (Dordrecht)

Theory Probability and Math. Statist. Theory of Probability and Mathematical Statistics. (Providence, R. I.) (Translation of: *Teor. Verojatnost. i Mat. Statist.*)

Tiraspol. Gos. Ped. Inst. Učen. Zap. Tiraspol'skiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. T. G. Ševčenko. Učenye Zapiski. (Kishinev)

Tjumen. Gos. Ped. Inst. Učen. Zap. Ministerstvo Prosveščenija RSFSR. Tjumenskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Tyumen)

Točn. i Nadezn. Kibernet. Sistem. Akademija Nauk Ukrainskoĭ SSR. Institut Èlektrodinamiki. Točnost' i Nadežnost' Kibernetičeskih Sistem. (Kiev)

Tôhoku Math. J. The Tôhoku Mathematical Journal. (Sendai)

Tomsk. Gos. Univ. Učen. Zap. Tomskiĭ Gosudarstvennyĭ Universitet im. V. V. Kuĭbyševa. Učenye Zapiski. (Tomsk)

Topology. Topology. An International Journal of Mathematics. (Oxford)

Trabajos Estadíst. Trabajos de Estadística. (Madrid) (Continued as: *Trabajos Estadíst. Investigacion Oper.*) [54, no. 3]

**Trabajos Estadíst. Investigacion Oper.* Trabajos de Estadística y de Investigacion Operativa. (Madrid) (Formerly: *Trabajos Estadíst.*) [54, no. 3]

Trans. Amer. Math. Soc. Transactions of the American Mathematical Society. (Providence, R. I.)

Trans. ASME Ser. E. J. Appl. Mech. American Society of Mechanical Engineers. Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York)

Trans. ASME Ser. G. J. Dynamic Systems, Measurement and Control. American Society of Mechanical Engineers. Transactions of the ASME. Series G. Journal of Dynamic Systems, Measurement and Control. (New York)

Trans. Moscow Math. Soc. Transactions of the Moscow Mathematical Society. (Providence, R. I.) (Translation of *Trudy Moskov. Mat. Obšč.*)

Trans. Roy. Soc. Canada. Transactions of the Royal Society of Canada. Chemical, Mathematical and Physical Sciences. (Ottawa, Ont.) (Continued as: *Proc. Roy. Soc. Canada* and *Trans. Roy. Soc. Canada*)

Trans. Roy. Soc. South Africa. Transactions of the Royal Society of South Africa. (Cape Town)

Trans. Soc. Rheol. Society of Rheology. Transactions. (New York)

Transport Theory Statist. Phys. Transport Theory and Statistical Physics. An International Journal for Rapid Communication. (New York)

Transportation Plann. Tech. Transportation Planning and Technology. (London)

Transportation Sci. Operations Research Society of America. Transportation Science Section. Transportation Science. (Baltimore, Md.)

**Travaux Sém. Anal. Convexe.* Travaux du Séminaire d'Analyse Convexe. (Montpellier) [54, no. 1]

TRU Math. TRU Mathematics. (Tokyo)

**Trudove Visš. Ikonom. Inst. "Karl Marks"–Sofija.* Višlija Ikonomičeski Institut "Karl Marks"–Sofija. Trudove. (Sofia) [53, no. 2]

Trudy Akad. Nauk Litov. SSR Ser. B. Lietuvos TSR Mokslų Akademijos. Darbai. Serija B. Akademii Nauk Litovskoĭ SSR. Trudy. Serija B. (Vilnius)

Trudy Altaĭsk. Politehn. Inst. Altaĭskiĭ Politehničeskiĭ Institut im. I. I. Polizunova. Trudy. (Barnaul)

Trudy Arhangel. Lesotehn. Inst. Trudy Arhangel'skogo Lesotehničeskogo Instituta im. V. V. Kuĭbyševa. (Arkhangelsk)

Trudy Baškir. S.-h. Inst. Trudy Baškirskogo Sel'skohozjaĭstvennogo Instituta. (Ufa)

**Trudy CNIIKA.* Gosudarstvennyĭ Vsesojuznyĭ Central'nyĭ Naučno-Issledovatel'skiĭ Institut Kompleksnoĭ Avtomatizacii. Trudy. CNIIKA. (Moscow) [53, no. 3]

Trudy Doneck. Politehn. Inst. Trudy Doneckogo Politehničeskogo Instituta. (Doneck)

Trudy Fiz. Inst. Lebedev. Akademija Nauk SSSR. Trudy Fizičeskogo Instituta im. P. N. Lebedeva. (Moscow) (Translated as: *Proc. (Trudy) P. N. Lebedev Phys. Inst.*)

Trudy Frunze. Politehn. Inst. Frunzenskiĭ Politehničeskiĭ Institut. Trudy Frunzenskogo Politehničeskogo Instituta. (Frunze)

**Trudy Geom. Sem. Kazan. Univ.* Kazanskiĭ Universitet. Geometričeskogo Seminara. Trudy. (Kazan) [53, no. 5]

Trudy Geometr. Sem. Akademija Nauk SSSR. Institut Naučnoĭ Informacii. VINITI. Trudy Geometričeskogo Seminara. (Moscow) (Continued as: *Problems of Geometry* in the key word Index)

Trudy Glavn. Geofiz. Observator. Glavnaja Geofizičeskaja Observatorija im. A. I. Voeĭkova. Trudy. (Leningrad)

**Trudy Gor'kov. Politehn. Inst.* Gor'ki. Politehničeskiĭ Institut. Trudy. (Gorki) [53, no. 3]

Trudy Inst. Istor. Estestvoznan. Tehn. Akademija Nauk SSSR. Trudy Instituta Istorii Estestvoznanija i Tehniki. (Moscow)

Trudy Inst. Mat. i Meh. Ural. Naučn. Centr Akad. Nauk SSSR. Trudy Instituta Matematiki i Mehaniki. Ural'skiĭ Naučnyĭ Centr. Akademija Nauk SSSR. (Sverdlovsk)

Trudy Inst. Sistem Upravlenija Akad. Nauk Gruzin. SSR. Akademija Nauk Gruzinskoĭ SSR. Trudy Instituta Sistem Upravlenija. See *Sakharth. SSR Mecn. Akad. Marthw. Sistem. Inst. Šrom.*

Trudy Inst. Teoret. Astronom. Akademija Nauk SSSR. Trudy Instituta Teoretičeskoĭ Astronomii. (Moscow)

Trudy Irkutsk. Gos. Univ. Trudy Irkutskogo Gosudarstvennogo Universiteta. (Irkutsk)

Trudy Kaf. Teorii Funkcii i Funkcional. Anal. Moskov. Gos. Univ. Moskovskiĭ Gosudarstvennyĭ Universitet. Mehaniko-matematičeskiĭ Fakul'tet. Kafedra Teorii Funkciĭ i Funkcional'nogo Analiza. Trudy. (Moscow)

Trudy Kaliningrad. Gos. Univ. Differencial'naja Geometr. Mnogoobraz. Figur. Trudy Kaliningradskogo Gosudarstvennogo Universiteta. Differencial'naja Geometrija Mnogoobrazii Figur. (Kaliningrad)

Trudy Kazan. Aviacion. Inst. Trudy Kazanskogo Aviacionnogo Instituta. Matematika i Mehanika. (Kazan)

Trudy Kazan. Gorod. Astronom. Observator. Kazanskiĭ Ordena Trudogo Krasnogo Znameni Gosudarstvennyĭ Universitet im. V. I. Ul'janova-Lenina. Trudy Kazanskoĭ Gorodskoĭ Astronomičeskoĭ Observatorii. (Kazan)

Trudy Kazan. S.-h. Inst. Trudy Kazanskogo Sel'skohozjaĭstvennogo Instituta. (Kazan)

Trudy Kirgiz. Gos. Univ. Ser. Mat. Nauk. Kirgizskiĭ Gosudarstvennyĭ Universitet. Trudy Kirgizskogo Gosudarstvennogo Universiteta. Serija Matematičeskih Nauk. (Frunze)

Trudy Kolomen. Filiala Vsesojuz. Zaočn. Politehn. Inst. Vsesojuznyĭ Zaočnyĭ Politehničeskiĭ Institut. Trudy Kolomenskogo Filiala. (Moscow)

Trudy Komi Filiala Akad. Nauk SSSR. Trudy Komi Filiala Adademii Nauk SSSR. (Syktyvkar)

Trudy Leningrad. Tehnolog. Inst. Holod. Promyšl. Trudy Leningradskogo Tehnologičeskogo Instituta Holodil'noĭ Promyšlennosti. (Leningrad)

Trudy Mat. Inst. Steklov. Akademija Nauk Sojuza Sovetskih Socialističeskih Respublik. Trudy Matematičeskogo Instituta im. V. A. Steklova. (Moscow) (Translated as: *Proc. Steklov Inst. Math.*)

Trudy Metrolog. Inst. SSSR. Vsesojuznyĭ Naučno-Issledovatel'skiĭ Institut Metrologii im. D. I. Mendeleeva. Tbilisskiĭ Filial. Trudy Metrologičeskih Institutov SSSR. (Tbilisi)

Trudy Moskov. Èlektrotehn. Inst. Svjazi (MÈIS). Trudy Moskovskogo Èlektrotehničeskogo Instituta Svjazi. Trudy MÈIS. (Moscow)

Trudy Moskov. Inst. Radiotehn. Èlektron. i Avtomat. Trudy Moskovskogo Instituta Radiotehniki, Èlektroniki i Avtomatiki. (Moscow)

Trudy Moskov. Mat. Obšč. Trudy Moskovskogo Matematičeskogo Obščestva. (Moscow) (Translated as: *Trans. Moscow Math. Soc.*)

Trudy Moskov. Orden. Lenin. Èneget. Inst. Trudy Moskovskogo Ordena Lenina Èneregetičeskogo Instituta. (Moscow)

Trudy Naučno- Issled. Inst. Avtomatizacii Proizvod. Processov Him. Promysl. i Cvet. Metallurgii. Trudy Naucno-Issledovatel skogo Instituta Avtomatizacii Proizvodstvennyh Processov Himiceskoi Promyslennosti i Cvetnoi Metallurgii. 'NIIA Avtomatika". (Kirovakan)

Trudy Nikolaev. Korablestroitel. Inst. Nikolaevskiĭ Ordena Trudovogo Krasnogo Znameni Korablestroitel'nyĭ Institut im. Admirala S. O. Makarova. Trudy Nikolaevskogo Korablestroitel'nogo Instituta. (Nikolaev)

Trudy Otdel. Èkonom. Issled. Burjat. Filiala Sibirsk. Otdel. Akad. Nauk SSSR. Trudy Otdela Èkonomičeskih Issledovaniĭ Burjatskogo Filiala Sibirskogo Otdelenija Akademii Nauk SSSR. (Ulan Ude)

**Trudy Ped. Inst. Gruzin. SSR Ser. Fiz. i Mat.* Trudy Pedagogičeskih Institutov Gruzinskoĭ SSR. Serija Fiziki i Matematiki. (Tbilisi) See *Sakharth. SSR Ped. Inst. Šrom. Phiz.-Math. Ser.* [53, no. 2]

Trudy Prževal'sk. Gos. Ped. Inst. Trudy Prževal'skogo Gosudarstvennogo Pedagogičeskogo Instituta. (Prževal'sk)

Trudy Rjazan. Radiotehn. Inst. Trudy Rjazanskogo Radiotehničeskogo Instituta. (Ryazan)

Trudy Samarkand. Gos. Univ. Trudy Samarkandskogo Gosudarstvennogo Universiteta im. A. Navoi. (Samarkand)

Trudy Saratov. Inst. Meh. S.-h. Trudy Saratovskogo Instituta Mehanizacii Sel'skogo Hozjaĭstva. (Saratov)

Trudy Sem. Kraev. Zadačam. Trudy Seminara po Kraevym Zadačam. (Kazan)

Trudy Sem. Mat. Fiz. Nelineĭn. Koleban. Akademija Nauk Ukrainskoĭ SSR. Institut Matematiki. Trudy Seminara po Matematičeskoĭ Fizike i Nelineĭnym Kolebanijam. (Kiev)

**Trudy Sem. Petrovsk.* Moskovskiĭ Universitet. Trudy Seminara im I. G. Petrovskogo. (Moscow) [53, no. 4]

Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby. Trudy Seminara po Teorii Differencial'nyh Uravneniĭ s Otklonjajuščimsja Argumentom. Universitet Družby Narodov im. Patrisa Lumumby. (Moscow)

Trudy Sem. Vektor. Tenzor. Anal. Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Priloženijami k Geometrii, Mehanike i Fizike. (Moscow)

Trudy Sibirsk. Fiz.-Tehn. Inst. Trudy Sibirskogo Fiziko-Tehničeskogo Instituta imeni Akademika V. D. Kuznecova. (Tomsk)

Trudy Tadžik. Politehn. Inst. Trudy Tadžikskogo Politehničeskogo Instituta. (Dushanbe)

Trudy Taškent. Gos. Univ. Trudy Taškentskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika. (Tashkent) See *Taškent. Gos. Univ. Naučn. Trudy.*

Trudy Tbiliss. Univ. A. Trudy Tbilisskogo Universiteta. A. Fiziko-Mathematičeskie i Estestvennye Nauki. (Tbilisi) See *Thbiliz. Univ. Šrom. A.*

Trudy Tomsk. Gos. Univ. Trudy Tomskogo Gosudarstvennogo Universiteta im. V. V. Kuĭbyševa. (Tomsk)

Trudy Univ. Družby Narod. Trudy Universiteta Družby Narodov im. Patrisa Lumumby. (Moscow)

Trudy Vsesojuz. Naučno-Issled. Inst. Èlektromeh. Trudy Vsesojuznogo Naučno-Issledovatel'skogo Instituta Èlektromehaniki. (Moscow)

Trudy Vsesojuz. Zaočn. Èneget. Inst. Trudy Vsesojuznogo Zaočnogo Èneregetičeskogo Instituta. (Moscow)

Trudy VTI. Vsesojuznyĭ Davždy Ordena Trudovogo Krasnogo Znameni Teplotehničeskiĭ Naučno-Issledovatel'skiĭ Institut im. F. È. Dzeržinskogo. Trudy Vsesojuznogo Teplotehničeskogo Instituta. (Moscow)

Trudy Vyčisl. Centra Akad. Nauk Armjan. SSR i Erevan. Gos. Univ. Mat. Voprosy Kibernet. i Vyčisl. Tehn. Trudy Vyčislitel'nogo Centra Akademii Nauk Armjanskoĭ SSR i Erevanskogo Gosudarstvennogo Universiteta. Matematičeskie Voprosy Kibernetiki i Vyčislitel'noĭ Tehniki. (Erevan)

Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR. Akademija Nauk Gruzinskoĭ SSR. Trudy Vyčislitel'nogo Centra. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom.*

Trudy Vyčisl. Centra Tartu. Gos. Univ. Trudy Vyčislitel'nogo Centra. Tartuskiĭ Gosudarstvennyĭ Universitet. (Tartu)

Tul. Gos. Ped. Inst. Učen. Zap. Mat. Kaf. Tul'skiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im L. N. Tolstogo. Učenye Zapiski Matematičeskih Kafedr. (Tula)

Turkmen. Gos. Univ. Učen. Zap. Turkmenskiĭ Gosudarstvennyĭ Universitet im. A. M. Gor'kogo. Učenye Zapiski. (Ashkhabad)

Tydskr. Natuurwetenskap. Die Suid-Afrikaanse Akademie vir Wetenskap en Kuns. Tydskrif vir Natuurwetenskappe. (Pretoria)

U.S.S.R. Computational Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)

Učen. Zap. Erevan. Gos. Univ. Estestv. Nauki. Učenye Zapiski Erevanskogo Gosudarstvennogo Universiteta. Estestvennye Nauki. (Erevan)

Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk. Ministerstvo Prosveščenija RSFSR. Karel'skiĭ Pedagogičeskiĭ Institut. Učenye Zapiski. Serija Fiziko-Matematičeskih Nauk. (Petrozavodsk)

Učen. Zap. Statist. Akademija Nauk SSSR. Central'nyĭ Èkonomiko-Matematičeskiĭ Institut. Učenye Zapiski po Statistike. (Moscow)

Ufim. Aviacion. Inst. Trudy. Ufimskiĭ Aviacionnyĭ Institut im. Ordžonikidze. Trudy. (Ufa)

UIT Rep. UIT Report. Ulsan Institute of Technology. (Ulsan)

**Ukraïn Fiz. Ž.* Akademija Nauk Ukraïns'koĭ RSR. Vidil Fiziki. Ukraïns'kiĭ Fizičniĭ Žurnal. (Kiev) [Ukrainian edition] (Translated as: *Ukrain. Fiz. Ž. (Russian edition)*) [53, no. 4]

**Ukrain. Fiz. Ž.* Akademija Nauk Ukrainskoĭ SSR. Otdelenie Fiziki. Ukrainskiĭ Fizičeskiĭ Žurnal. (Kiev) (Translation of *Ukraïn Fiz. Ž. (Ukrainian edition)*) [53, no. 4]

Ukrain. Geometr. Sb. Ministerstvo Vysšego i Srednego Special'nogo Obrazovanija USSR. Ukrainskiĭ Geometričeskiĭ Sbornik. (Kharkov)

**Ukraïn. Mat. Ž.* Akademija Nauk Ukraïns'koĭ RSR. Institut Matematiki. Ukraïns'kiĭ Matematičniĭ Žurnal. (Kiev) [Ukrainian edition] (Translated as: *Ukrain. Mat. Ž. (Russian edition)* and *Ukrainian Math. J.*) [53, no. 4]

**Ukrain. Mat. Ž.* Akademija Nauk Ukrainskoĭ SSR. Institut Matematiki. Ukrainskiĭ Matematičeskiĭ Žurnal. (Kiev) (Translation of *Ukraïn Mat. Ž. (Ukrainian edition)*) [53, no. 4]

**Ukrainian Math. J.* Ukrainian Mathematical Journal. (New York) (Translation of *Ukrain. Mat. Ž.* and *Ukraïn. Mat. Ž. (Ukrainian edition)*) [53, no. 4]

Ul'janovsk. Gos. Ped. Inst. Učen. Zap. Ul'janovskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. I. N. U'ljanova. Učennye Zapiski. (Saratov)

Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Elektron. Telekomun. Automat. Univerzitet u Beogradu Publikacije Elektrotehničkog Fakulteta. Serija Elektronika, Telekomunikacije, Automatika. (Belgrade)

Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakulteta. Serija Matematika i Fizika. (Belgrade)

Univ. Beograd. Tehn. Fiz. Univerzitet u Beogradu. Tehnička Fizika. Journal of Engineering Physics. (Belgrade)

Univ. Beograd. Zb. Radova Građevin. Fak. Univerzitet u Beogradu. Zbornik Radova Građevinskog Fakulteta u Beogradu. (Belgrade)

**Univ. Brasov Lucrari Ştiinţ.* Universitatea din Brasov. Lucrari Ştiinţifice. (Brasov) [54, no. 6]

Univ. Genova Pubbl. Ist. Mat. Università di Genova. Pubblicazioni dell'Istituto di Matematica. (Genoa)

Univ. Habana. Universidad de la Habana. (Havana)

**Univ. Kiril Metodij–Skopje Fac. Math.* Université Kiril et Metodij–Skopje. Faculté des Mathématiques. (Skopje) [54, no. 3]

Univ. Lisboa Revista Fac. Ci. A. Universidade de Lisboa. Revista da Faculdade de Ciências. 2.ª Série. A. Ciências Matemáticas. (Lisbon)

Univ. Nac. Tucumán Rev. Ser. A. Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)

Univ. Palermo Ann. Fac. Econom. e Commercio. Università di Palermo. Annali della Facoltà di Economia e Commercio. (Palermo)

Univ. Studies Math. University Studies in Mathematics. (Jaipur)

Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Univerzitet u Novom Sadu. Zbornik Radova Prirodno-Matematičkog Fakulteta. (Novi Sad)

Uniw. Śląski w Katowicach Prace Naukowe. Uniwersytet Śląski w Katowicach. Prace Naukowe. (Katowice)

Uniw. Śląski w Katowicach Prace Naukowe–Prace Mat. Uniwersytet Śląski w Katowicach. Prace Naukowe. Prace Matematyczne. (Katowice)

Upravljaemye Sistemy. Upravljaemye Sistemy. Institut Matematiki, Institut Kataliza Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk)

Ural. Gos. Univ. Mat. Zap. Ural'skiĭ Gosudarstvennyĭ Universitet im. A. M. Gor'kogo. Ural'skoe Matematičeskoe Obscestvo. Matematičeskie Zapiski. (Sverdlovsk)

Ural. Politehn. Inst. Sb. Ural'skiĭ Politehničeskiĭ Institut im. S. M. Kirova. Sbornik. (Sverdlovsk)

Urdmurt. i Glazov. Ped. Inst. Učen. Zap. Urdmurtskogo i Glazovskogo Pedagogičeskogo Instituta Učenye Zapiski. (Izhevsk) (May also appear as: *Urdmurt. Ped. Inst. Učen. Zap.*)

Urdmurt. Ped. Inst. Učen. Zap. Urdmurtskogo Pedagogičeskogo Instituta Učenye Zapiski. (Izhevsk) (May also appear as: *Urdmurt. i Glazov. Ped. Inst. Učen. Zap.*)

**US i M–Upravljajuščie Sistemy i Mašiny.* US i M–Upravljajuščie Sistemy i Mašiny. (Kiev) [53, no. 1]

Uspehi Fiz. Nauk. Akademija Nauk SSSR. Uspehi Fizičeskih Nauk. (Moscow) (Translated as: *Soviet Physics Uspekhi*)

Uspehi Mat. Nauk. Akademija Nauk SSSR i Moskovskoe Matematičeskoe Obščestvo. Uspehi Matematičeskih Nauk. (Moscow) (Selected articles translated as: *Russian Math. Surveys*)

U.S.S.R. Computational, Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)

Utilitas Math. Utilitas Mathematica. A Canadian Journal of Applied Mathematics, Computer Science, and Statistics. (Winnipeg, Man.)

V. I. Lenin. Sakharth. Politekh. Inst. Sameen. Šrom. V. I. Leninis Saḫelobis Šromis Citheli Drošis Ordenosani Sakharthvelos Politekhnikuri Instituti. Samecniero Šromebi. (Tbilisi)

Verh. Konink. Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch. Verhandlingen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels)

Verzekerings-Arch. Het Verzekerings-Archief. ('s-Gravenhage)

Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk. Vesci Akadèmii Navuk BSSR. Seryja Fizika-Matèmatyčnyh Navuk. (Minsk)

Vestnik Akad. Nauk Kazah. SSR. Vestnik Akademii Nauk Kazahskoĭ SSR. (Alma-Ata)

Vestnik Akad. Nauk SSSR. Vestnik Akademii Nauk SSSR. (Moscow)

Vestnik Beloruss. Gos. Univ. Ser. I. Vestnik Belorusskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Naučnyĭ Žurnal. Serija I. Matematika, Fizika, Mehanika. (Minsk)

Vestnik Har'kov. Gos. Univ. Vestnik Har'kovskogo Gosudarstvennogo Universiteta. Serija Mehaniko-Matematičeskaja. Zapiski Mehaniko-Matematičeskogo Fakulteta i Har'kovskogo Matematičeskogo Obščestva. (Kharkov)

Vestnik Har'kov. Politehn. Inst. Vestnik Har'kovskogo Politehničeskogo Instituta. (Kharkov)

**Vestnik Jaroslav. Univ.* Jaroslavskiĭ Universitet. Vestnik. (Jaroslavl') [53, no. 1]

Vestnik Karakalpak. Fil. Akad. Nauk UzSSR. Akademija Nauk UzSSR. Karakalpakskiĭ Filail. Vestnik. (Nukus)

Vestnik Leningrad. Univ. Fiz. Him. Vestnik Leningradskogo Universiteta. Fizika, Himija. (Leningrad)

Vestnik Leningrad. Univ. Mat. Meh. Astronom. Vestnik Leningradskogo Universiteta. Matematika, Mehanika, Astronomija. (Leningrad)

Vestnik Leningrad Univ. Math. Vestnik Leningrad University. Mathematics. (Providence, R. I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)

Vestnik Moskov. Univ. Ser. I Mat. Meh. Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mehanika. (Moscow) (Mathematics section translated as: *Moscow Univ. Math. Bull.*)

Vestnik Moskov. Univ. Ser. III Fiz. Astronom. Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow) (Physics section translated as: *Moscow Univ. Phys. Bull.*)

Vestnik Statist. Vestnik Statistiki. (Moscow)

Vidya B. Vidya B. Sciences. The Journal of the Gujarat University. (Ahmedabad)

Vignana Bharathi. Vignana Bharathi. (Bangalore)

Vijnana Parishad Anusandhan Patrika. Vijnana Parishad Anusandhan Patrika [The Research Journal of the Hindu Science Academy]. (Allahabad)

**Vikram.* Vikram. (Ujjain) (Formerly: *Vikram–Quart. Res. J. Vikram University*) [54, no. 6]

Vikram–Quart. Res. J. Vikram University. The Vikram. Quarterly Research Journal of Vikram University. (Ujjain) (Continued as: *Vikram*) [54, no. 6]

Virginia J. Sci. Virginia Journal of Science. (Richmond, Va.)

Visnik Kiiv. Univ. Ser. Mat. Meh. Visnik Kiivs'kogo Universitetu. Serija Matematiki ta Mehaniki. (Kiev)

Visnik L'viv. Derž. Univ. Ser. Meh.-Mat. Visnik L'vivs'kogo Ordena Lenina Deržavogo Universitetu im. Ivana Franka. Serija Mehaniko-Matematična. (Lvov)

Visnik L'viv. Politehn. Inst. Visnik L'vivs'kogo Politehničnogo Institutu. (Lvov)

Vladimir. Gos. Ped. Inst. Učen. Zap. Valdimirskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. P. I. Lebedeva-Poljanskogo. Učenyi Zapiski. (Vladimir)

Vladimir. Večer. Politehn. Inst. Sb. Naučn. Trudov. Vladimirskiĭ Večernyĭ Politehničeskiĭ Institut. Sbornik Naučnyh Trudov. (Vladimir)

Volgograd. Gos. Ped. Inst. Učen. Zap. Volgogradskogo Gosudarstvennogo Pedagogičeskogo Instituta im. A. S. Serafimoviča. Učenye Zapiski. (Volgograd)

Vologod. Gos. Ped. Inst. Učen. Zap. Vologodskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Vologda) (May also appear as: *Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.*)

Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap. Vologodskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Čerepoveckiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut. Učenye Zapiski. (Vologda) (May also appear as: *Vologod. Gos. Ped. Inst. Učen. Zap.*)

Volž. Mat. Sb. Ministerstvo Prosveščenija RSFSR. Kuibyševskiĭ Gosudarstvennyĭ Pedagogičeskiĭ Institut im. V. V. Kuĭbyševa. Volžskiĭ Matematičeskiĭ Sbornik. (Kuybyshev)

Voprosy Filos. Akademija Nauk SSSR. Institut Filosofii. Voprosy Filosofii. (Moscow)

Voprosy Informacion. Teorii i Praktiki. Akademija Nauk SSSR. Vsesojuznyĭ Institut Naučnoĭ i Tehničeskoĭ Informacii. Voprosy Informacionnoĭ Teorii i Praktiki. (Moscow)

Voprosy Istor. Estestvoznan. i Tehn. Akademija Nauk SSSR. Voprosy Istorii Estestvoznanija i Tehniki. (Moscow)

**Voprosy Kibernet. (Moscow)* Akademija Nauk SSSR. Naučnyĭ Sovet po Kompleksnoĭ Probleme "Kibernetika". Voprosy Kibernetiki. (Moscow) [53, no. 2]

Voprosy Kibernet. (Tashkent) Voprosy Kibernetiki. Akademija Nauk Uzbekskoĭ SSR. (Tashkent)

Voprosy Vyčisl. i Prikl. Mat. Akademija Nauk Uzbekskoĭ SSR. Trudy Ordena Trudovogo Krasnogo Znameni Instituta Kibernetiki s Vyčislitel'nym Centrom. Voprosy Vyčislitel'noĭ i Prikladnoĭ Matematiki. (Tashkent)

Voronež. Gos. Univ. Sb. Naučn. Trudov Fak. Prikl. Mat. Meh. VGU. Ministerstvo Vysšego i Srednego Special'nogo Obrazovanija RSFSR. Voronežskiĭ Ordena Lenina Gosudarstvennyĭ Universitet im. Leninskogo Komsomola. Sbornik Naučnyh Trudov Fakulteta Prikladnoĭ Matematiki i Mehaniki. (Voronezh)

Voronež. Gos. Univ. Trudy Mat. Fak. Voronežskiĭ Gosudarstvennyĭ Universitet im. Leninskogo Komsomola. Trudy Matematičeskogo Fakul'teta. (Voronezh)

Voronež. Gos. Univ. Trudy Naučn.-Issled. Inst. Mat. VGU. Voronežskiĭ Ordena Lenina Gosudarstvennyĭ Universitet im. Leninskogo Komsomola. Trudy Naučno-Issledovatel'skogo Instituta Matematiki. (Voronezh)

Voronež. Gos. Univ. Trudy Sem. Funkcional. Anal. Ministerstvo Vysšego Obrazovanija SSSR. Voronežskiĭ Gosudarstvennyĭ Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronezh)

Voronež. Tehn. Inst. Trudy. Voronežskiĭ Tehnologičeskiĭ Institut. Trudy. (Voronezh)

Vsesojuz. Zaočn. Politehn. Inst. Sb. Trudov. Vsesojuznyĭ Zaočnyĭ Politehničeskiĭ Institut. Sbornik Trudov. (Moscow)

Vyčisl. Mat. i Vyčisl. Tehn. (Kharkov). Fiziko-Tehničeskiĭ Institut Nizkih Temperatur Akademii Nauk Ukrainskoĭ SSR. Vyčislitel'naja Matematika i Vyčislitel'naja Tehnika. (Kharkov)

Vyčisl. Prikl. Mat. (Kiev). Kievskiĭ Gosudarstvennyĭ Universitet. Mežvedomstvennyĭ Naučnyĭ Sbornik. Vyčislitel'naja i Prikladnaja Matematika. (Kiev)

Vyčisl. Sistemy. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Vyčislitel'nye Sistemy. Sbornik Trudov. (Novosibirsk)

**Vyčisl. Tehn. i Voprosy Kibernet.* Leningradskiĭ Gosudarstvennyĭ Univesitet. Vyčislitel'nyĭ Centr. Moskovskiĭ Gosudarstvennyĭ Universitet. Vyčislitel'nyĭ Centr. Vyčislitel'naja Tehnikai Voprosy Kibernetiki. (Leningrad) [53, no. 4]

**Vyčisl. Tehn. v Mašinostroen.* Akademija Nauk BSSR. Institut Tehničeskoĭ Kibernetiki. Vyčislitel'naja Tehnika v Mašinostroenii. (Minsk) [53, no. 1]

Wiadom. Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria II. Wiadomości Matematyczne. (Warsaw)

Wisconsin Acad. Sci. Arts Lett. Trans. Wisconsin Academy of Sciences. Arts & Letters. Transactions. (Madison, Wis.)

Wiss. Beitr. Martin-Luther-Univ. Halle-Wittenberg Reihe M. Martin-Luther-Universität Halle-Wittenberg. Wissenschaftliche Beitrage. Reihe M. (Halle) (Formerly: *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg*)

Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Natur. Reihe Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald)

Wiss. Z. Friedrich-Schiller-Univ. Jena Math.-Naturwiss. Reihe. Friedrich-Schiller-Universität Jena. Wissenschaftliche Zeitschrift. Mathematisch-Naturwissenschaftliche Reihe. (Jena)

Wiss. Z. Hochsch. Verkehrswesen "Friedrich List" Dresden. Wissenschaftliche Zeitschrift der Hochschule für Verkehrswesen "Friedrich List" in Dresden. Die Anwendung Mathematischer Methoden im Transport- und Nachrichtenwesen. (Dresden)

Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)

Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)

Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)

Wiss. Z. Pädagog. Hochsch. "Karl Liebknecht" Potsdam. Wissenschaftliche Zeitschrift der Pädagogischen Hochschule "Karl Liebknecht" Potsdam. (Potsdam)

Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg. Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg) (Continued as: *Wiss. Z. Techn. Hochsch. Leuna-Merseburg*) [53, no. 3]

**Wiss. Z. Techn. Hochsch. Leuna-Merseburg.* Leuna-Merseburg. Technische Hochschule Wissenschaftliche Zeitschrift. (Leuna-Merseburg) (Formerly: *Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg*)

Wiss. Z. Techn. Hochsch. Ilmenau. Wissenschaftliche Zeitschrift der Technischen Hochschule Ilmenau. (Ilmenau)

Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt. Wissenschaftliche Zeitschrift der Technischen Hochschule Karl-Marx-Stadt. (Karl-Marx-Stadt)

Wiss. Z. Techn. Univ. Dresden. Wissenschaftliche Zeitschrift der Technischen Universität Dresden. (Dresden)

Wiss. Z. Univ. Rostock Math.-Naturwiss. Reihe. Universitat Rostock. Wissenschaftliche Zeitschrift. Mathematisch-Naturwissenschaftliche Reihe. (Rostock)

Wyż. Szkoł. Ped. Kraków. Rocznik Nauk.-Dydakt. Prace Dydakt. Mat. Wyższa Szkoła Pedagogiczna w Krakowie. Rocznik Naukowo-Dydaktyczny. Prace z Dydaktyki Matematyki. (Kraków)

Yokohama Math. J. Yokohama Mathematical Journal. (Yokohama)

Z. Allgemeine Wissenschaftstheorie. Zeitschrift für Allgemeine Wissenschaftstheorie. (Wiesbaden)

Z. Angew. Math. Mech. Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)

Z. Angew. Math. Phys. Zeitschrift fur Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)

Ž. Èksper. Teoret. Fiz. Akademija Nauk SSSR. Žurnal Èksperimental'noĭ i Teoretičeskoĭ Fiziki. (Moscow) (Translated as: *Soviet Physics JETP*)

Z. Elek. Informations- und Energietech. Zeitschrift für Elektrische Informations- und Energietechnik. (Leipzig)

Z. Math. Logik Grundlagen Math. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)

Z. Naturforsch. Zeitschrift für Naturforschung. (Tübingen)

Z. Operations Res. Ser. A-B. Zeitschrift für Operations Research. Serie A. Serie B. (Würzburg)

Z. Phys. A. Zeitschrift für Physik. A. Atoms and Nuclei. (Berlin)

Z. Phys. B. Zeitschrift für Physik. B. Condensed Matter and Quanta. (Berlin)

Ž. Prikl. Meh. i Tehn. Fiz. Žurnal Prikladnoĭ Mehaniki i Tehničeskoĭ Fiziki. (Moscow) (Translated as: *J. Appl. Mech. Tech. Phys.*)

Ž. Strukturn. Him. Akademija Nauk SSR. Sibirskoe Otdelenie. Žurnal Strukturnoĭ Himii. (Moscow)

Ž. Vyčisl. Mat. i Mat. Fiz. Akademija Nauk SSSR. Žurnal Vyčislitel'noĭ Matematiki i Matematičeskoĭ Fiziki. (Moscow) (Translated as: *U.S.S.R. Computational Math. and Math. Phys.*)

Z. Wahrscheinlichkeitstheorie und Verw. Gebiete. Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete. (Berlin)

Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč. See *Vestnik Har'kov. Gos. Univ.*

Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI). Zapiski Naučnyh Seminarov Leningradskogo Otdelenija Matematičeskogo Instituta im. V. A. Steklova Akademii Nauk SSSR (LOMI). (Leningrad) (Translated in *J. Soviet Math.*)

Zastos. Mat. Polska Akademia Nauk. Instytut Matematyczny. Zastosowania Matematyki. (Warsaw)

Zbl. Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin)

Zbl. Math. Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin) (Usually abbreviated *Zbl* in the text of *Math. Reviews*)

**Zbornik Rad. Mat. Inst. Beograd.* Beograd. Matematički Institut. Zbornik Radova. (Belgrade) [53, no. 3]

Zemedel. Meh. Vsesojuznaja Akademija Sel'skohozjaĭstvennyh Nauk im. V. I. Lenina. Zemedel'českaja Mehanika. (Moscow)

Zeszyty Nauk. Akad. Górn.-Hutniczej–Mat.-Fiz.-Chem. Zeszyty Naukowe Akademii Górniczo-Hutniczej im. Stanisława Staszica. Matematyka-Fizyka-Chemia. (Kraków)

Zeszyty Nauk. Politech. Łódź. Mat. Zeszyty Naukowe Politechniki Łódzkiej. Matematyka. (Łódź)

Zeszyty Nauk. Politech. Śląsk. Automat. Zeszyty Naukowe Politechniki Śląskiej. Automatyka. (Gliwice)

Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz. Zeszyty Naukowe Politechniki Śląskiej. Matematyka-Fizyka. (Gliwice)

Zeszyty Nauk. Politech. Szczecin. Zeszyty Naukowe Politechniki Szczecińskiej. (Szczecin)

Zeszyty Nauk. Szkoły Główn. Planowania i Statyst. Zeszyty Naukowe Szkoły Głównej Planowania i Statystyki. (Warsaw)

Zeszyty Nauk. Uniw. Jagielloń. Prace Fiz. Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Fizyczne. (Kraków)

Zeszyty Nauk. Uniw. Jagielloń. Prace Mat. Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne. (Kraków)

Zeszyty Nauk. Wyż. Szkoły Ped. w Opolu Fiz. Zeszyty Naukowe Wyższej Szkoły Pedagogicznej w Opolu. Fizyka. (Opole)

Zeszyty Nauk. Wyż. Szkoły Ped. w Opolu Mat. Zeszyty Naukowe Wyższej Szkoły Pedagogicznej w Opolu. Matematyka. (Opole)

Zhongguo Kexue Jishu Daxue Xuebao. (Peking) See *J. China Univ. Sci. Techn.*

JOURNALS IN TRANSLATION

Acta Mech. Sinica (New York). Acta Mechanica Sinica. (New York) (Translation of *Acta Mech. Sinica (Peking)*)

Algebra and Logic. Algebra and Logic. (New York) (Translation of *Algebra i Logika*)

Astrophysics. Astrophysics. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)

Automat. Control and Computer Sci. Automatic Control and Computer Sciences. (New York) (Translation of *Avtomat. i Vyčisl. Tehn. (Riga)*)

Automat. Document. and Math. Linguistics. Automatic Documentation and Mathematical Linguistics. (New York) (Translation of: *Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnye Processy i Sistemy*)

Automat. Remote Control. Automation and Remote Control. A translation of *Avtomatika i Telemehanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemeh.*)

Chinese J. Phys. (Peking). Chinese Journal of Physics. Peking. A translation of *Acta Physica Sinica* of the Chinese Academy of Sciences, Peking. (New York) (Translation of *Acta Phys. Sinica*)

Cosmic Res. Cosmic Research. (New York) (Translation of *Kosmičes Issled.*)

Cybernetics. Cybernetics. (New York) (Translation of *Kibernetika (Kiev)*)

Differential Equations. Differential Equations. (New York) (Translation of *Differencial'nye Uravnenija*)

Electron. Commun. Japan. Electronics and Communications in Japan. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi.* See also: *Systems-Computers-Controls*)

Engrg. Cybernetics. Engineering Cybernetics. English edition of *Tehničeskaja Kibernetika.* (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)

Fluid Dynamics. Fluid Dynamics. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza*)

Functional Anal. Appl. Functional Analysis and its Applications. (New York) (Translation of *Funkcional. Anal. i Priložen.*)

Geodes. Mapp. Photogramm. Geodesy Mapping and Photogrammetry. (Washington, D.C.) (Partial translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aerofot.*)

Izv. Acad. Sci. USSR Atmospher. Ocean. Phys. Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)

Izv. Acad. Sci. USSR Phys. Solid Earth. Izvestiya Academy of Sciences USSR. Physics of the Solid Earth. (Washington, D. C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)

J. Appl. Math. Mech. Journal of Applied Mathematics and Mechanics. Translation of the Soviet journal *Prikladnaja Matematika i Mehanika.* (New York) (Translation of *Prikl. Mat. Meh.*)

J. Appl. Mech. Tech. Phys. Journal of Applied Mechanics and Technical Physics. (New York) . (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)

J. Engrg. Phys. Journal of Engineering Physics. (New York) (Translation of *Inž.-Fiz. Ž.*)

J. Soviet Math. Journal of Soviet Mathematics. (New York) (Translation of: (1) Itogi Nauki–Seriya Matematika (Progress in Science–Mathematical Series); (2) Problemy Matematičeskogo Analiza (Problems in Mathematical Analysis); (3) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)*)

Lithuanian Math. Trans. Lithuanian Mathematical Transactions. (New York) (Translation of *Litovsk. Mat. Sb.*)

Magnetohydrodynamics. Magnetohydrodynamics. A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR. (New York) (Translation of *Magnit. Gidrodinamika*)

Math. Notes. Mathematical Notes of the Academy of Sciences of the USSR. (New York) (Translation of *Mat. Zametki*)

Math. USSR-Izv. Mathematics of the USSR-Izvestija. (Providence, R. I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)

Math. USSR-Sb. Mathematics of the USSR-Sbornik. (Providence, R. I.) (Translation of *Mat. Sb.*)

Mechanics of Solids. Mechanics of Solids. (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)

Moscow Univ. Math. Bull. Moscow University Mathematics Bulletin. (New York) (Translation of the mathematics section of *Vestnik Moskov. Univ. Ser. I Mat. Meh.*)

Moscow Univ. Phys. Bull. Moscow University Physics Bulletin. (New York) (Translation of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)

Probleme der Kybernetik. Probleme der Kybernetik. (Berlin) (Translation of *Problemy Kibernet.*)

Problems of Information Transmission. Problems of Information Transmission. (New York) (Translation of *Problemy Peredači Informacii*)

Proc. Steklov Inst. Math. Proceedings of the Steklov Institute of Mathematics. (Providence, R. I.) (Translation of *Trudy Mat. Inst. Steklov.*)

Proc. (Trudy) P. N. Lebedev Phys. Inst. Proceedings (Trudy) of the P. N. Lebedev Physics Institute. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)

**Programmirovanie.* Akademija Nauk SSSR. Programmirovanie. (Moscow) (Translated as: *Programming and Comput. Software*) [54, no. 5]

Radio Engrg. Electron. Phys. Radio Engineering and Electronic Physics. Translation of *Radiotehnika i Èlektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotehn. i Elektron.*)

Radiophys. and Quantum Electronics. Radiophysics and Quantum Electronics. A translation of *Izvestija Vysših Učebnyh Zavedenii' Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Radiofizika*)

Russian Math. Surveys. Russian Mathematical Surveys. A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskih Nauk.* (London) (Translation of *Uspehi Mat. Nauk*)

Siberian Math. J. Siberian Mathematical Journal. (New York) (Translation of *Sibirsk. Mat. Ž.*)

Soviet Aeronaut. Soviet Aeronautics. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)

Soviet Appl. Mech. Soviet Applied Mechanics. (New York) (Translation of *Prikl. Meh.*)

Soviet Astronom. Soviet Astronomy. A translation of *Astronomičeskiĭ Žurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Ž.*)

Soviet Automat. Control. Soviet Automatic Control. (New York) (Translation of *Avtomatika*)

Soviet J. Nuclear Phys. American Institute of Physics. Soviet Journal of Nuclear Physics. (New York) (Translation of *Jadernaja Fiz.*)

Soviet J. Particles and Nuclei. Soviet Journal of Particles and Nuclei. (New York) (Translation of *Fiz. Èlementar. Častic. i Atom. Jadra*)

Soviet Math. Dokl. Soviet Mathematics. Doklady. A translation of the mathematics section of *Doklady Akademii Nauk SSSR.* (Providence, R. I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)

Soviet Math. (Iz. VUZ). Soviet Mathematics (Izvestija Vysših Učebnyh Zavedeniĭ. Matematika). (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Matematika*)

Soviet Physics Acoust. Soviet Physics. Acoustics. A translation of *Akustičeskiĭ Žurnal* of the Academy of Sciences of the USSR. (New York) (Translation of *Akust. Ž.*)

Soviet Physics–Collection. Soviet Physics. Collection. (New York) (Translation of *Litovsk. Fiz. Sb.*)

Soviet Physics Dokl. Soviet Physics. Doklady. A translation of the physics sections of *Doklady Akademii Nauk SSSR.* (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)

Soviet Physics J. Soviet Physics Journal. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Fizika*)

Soviet Physics JETP. Soviet Physics. JETP. A translation of *Ž. Èksperimental'noĭ i Teoretičeskoĭ Fiziki* of the USSR. (New York) (Translation of *Ž. Èksper. Teoret. Fiz.*)

Soviet Physics Uspekhi. Soviet Physics. Uspekhi. A translation of *Uspehi Fizičeskih Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspehi Fiz. Nauk*)

Systems-Computers-Controls. Systems-Computers-Controls. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D. C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi.* See also: *Electron. Commun. Japan*)

Theor. Probability Appl. Theory of Probability and its Applications. An English translation of the Soviet journal *Teorija Verojatnosteĭ i ee Primenenija.* (Philadelphia, Pa.) (Translation of *Teor. Verojatnost. i Primenen.*)

Theoret. and Math. Phys. Theoretical and Mathematical Physics. (New York) (Translation of *Theoret. Mat. Fiz.*)

Theory Probability and Math. Statist. Theory of Probability and Mathematical Statistics. (Providence, R. I.) (Translation of *Teor. Verojatnost. i Mat. Statist.*)

Trans. Moscow Math. Soc. Transactions of the Moscow Mathematical Society. (Providence, R. I.) (Translation of *Trudy Moskov. Mat. Obšč.*)

U.S.S.R. Computational Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)

Ukrainian Math. J. Ukrainian Mathematical Journal. (New York) (Translation of *Ukrain. Mat. Ž.*)

Vestnik Leningrad Univ. Math. Vestnik Leningrad University. Mathematics. (Providence, R. I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)

ERRATA AND ADDENDA

Volume 26

#2731: **Birman, M. Š.; Skvorcov, G. E.**
In the title "**Cauchy**" should be "**Dirichlet**". The paging for this article is also incorrect. It should be "12-21".

Index for Volume 26
On p. 1425 in the entry for **M. S. Birman** under item **2731** and on p. 1501 in the entry for **V. A. Skvorcov** "Cauchy" should be "Dirichlet".

Volume 48

#1225: **Milgram, R. James**
The author has pointed out in an unpublished erratum that the announced proof of the conclusion stated at the end of the review is incorrect, and that he is not aware of any proof of the existence of Θ_6.

Index for Volume 48
On p. 2529 in the entry for **L. Z. Salchev** items **7359, 12124** and **5175** should be transferred to a new entry for **H. Salehi.**

Volume 49

#3314: **Foht, A. S.**
The author's name should be "**Foht, O. S.**".

#6576: **Gragg, William B.**
In the title of the review "**intepretations**" should be "**interpretations**".

#7299: **Ming, R. Yue Chi**
The middle condition should be deleted from the first set of equivalent conditions. Add it to the second set of conditions, extended with the phrase "; no nonzero nilpotents".

#8850: **Tokarz, Marek**
Change the reviewer's remarks to read:

{Reviewer's remarks: The paper is clear and systematic. However, there is a mistake in the definition of inconsistency. The author defines a consequence Cn to be inconsistent if and only if, for every formula α, $Cn(\{\alpha\}) = S$, but such a definition would lead to the falsehood of Theorem 5 and also of the left-to-right implications of Theorems 6 and 10. However, if inconsistency is defined by $Cn(0) = S$ (which is, in fact, the more usual definition in studies of the subject), then the author's theorems are correct.}

#8864: **Breuer, Joseph**
The date of publication for this book is incorrectly given as 1964. It should be 1972.

#9358: **McGhee, Richard**
The author's name should be "**McGehee, Richard**".

#11167: **Debrenev, V. A.; Caljuk, Z. B.**
The first author's name should be "**Derbenev, V. A.**".

#12180: **Kayukawa, Koheil**
The author's name should be "**Kayukawa, Kohei**".

Index for Volume 49
On p. 2280 "**Debrenev, V. A.**" should be "**Derbenev, V. A.**". On p. 2293 "**Foht, A. S.**" should be "**Foht, O. S.**". On p. 2328 "**Kayukawa, Kohel**" should be "**Kayukawa, Kohei**". On p. 2353 "**McGhee, Richard**" should be "**McGehee, Richard**". On p. 2402 in the entry for "**Sehgal, Surinder K.**" items **350, 5078** and **5151** should be transferred to a new entry for "**Sehgal, Sudarshan K.**"

Volume 50

#1729: **Robinson, Stephen M.**
The following should be added to the end of the review: "This article also appeared in Mathematical Programming **5** (1973), 235-242 [MR **49** #4574]."

#2315: **Rotman, Joseph J.**
The following review is a replacement for the published review:

"This second edition incorporates such extensive changes that it merits its own review. It has been thoroughly rewritten; in addition to correction of minor errors, much important new material has been added throughout, especially exercises. The last two chapters have been radically revised. All of this constitutes a very substantial improvement in what was already an excellent book.

"This book performs, in a thoroughly integrated way, two different roles. First, the main body of the book constitutes an excellent introductory graduate (or advanced undergraduate) text, readable and stimulating to both teacher and student. Second, the last two chapters (185 pages) constitute a short monograph, at an equally accessible level, presenting a good number of the most important ideas and results in the modern theory of infinite non-abelian discrete groups.

"The review of the first edition [1965; MR **34** #4338] still serves to indicate the scope and quality of this book as a text. Among the more important changes we note only the discussion of wreath products in Chapter 7, the more geometric treatment of the PSL(m,K) for $m > 2$ in Chapter 8, and the use of Grothendieck groups in Chapter 9. Note that the second printing of the second edition contains an insert correcting material on page 124. The author wishes to point out also an uncorrected error in the last six lines of the proof of the Jordan-Hölder theorem, on page 106.

#2315 *Continued*

"The remainder of this review will be devoted to Chapters 11 and 12. Chapter 11 begins with presentations of groups by generators and relations. Free groups, and later free products and free products with amalgamation, are defined by their universal properties. As usual, existence is proved by constructing groups whose elements are words in a prescribed normal form, and associativity is established by the device of van der Waerden. Abstract complexes, their fundamental groups (edgepath groups) and coverings are now introduced to give simple and intuitive proofs of the Nielsen-Schreier and Kurosh subgroup theorems. (The author has noted privately that cell complexes are more efficient that the simplicial complexes used here.) Schreier transversals are explained simply in this context, but are not required in the sequel. The reader is properly referred to the book by W. S. Massey [*Algebraic topology; an introduction*, Harcourt, Brace & World, New York, 1967; MR **35** #2271] for Stallings' proof of the Grushko-Neumann theorem. The basic facts about free products with amalgamation are established, and the corresponding version of van Kampen's theorem is given as an exercise. The existence of Higman-Neumann-Neumann extensions is proved by the original simple argument, using free products with amalgamation, whence is derived the embeddability of every countable group in a two-generator group. The topological significance of HNN-extensions ("adding handles") is not noted. These groups, here called Britton extensions (except in a footnote), are taken up again in Chapter 12, where their existence is derived from Britton's lemma (the normal form theorem for HNN-extensions).

"Chapter 12 is devoted mainly to the result of Novikov and Boone (with proof modified by Britton, Miller, and others), that there exists a finitely presented group with unsolvable word problem. A ten page section given a clear, concise, and

Volume **50** *cont.*

#2315 *Continued*

rigorous discussion of the necessary concepts from logic, of Turing machines, recursively enumerable sets, and the theorem of Post that there exists a finitely presented semigroup with unsolvable word problem. The next ten pages derive the Novikov-Boone theorem from Post's theorem by repeated use of Britton's lemma. The final 13 pages are devoted to the remarkable theorem of G. Higman, that the recursively presented groups are precisely the subgroups of finitely presented groups. Aanderaa's proof is given, deriving the result, again by repeated use of Britton's lemma, from an easy result about Turing machines.

"On the side of topology, the book of Massey would seem an ideal complement to the material in these two chapters (primarily the first), and, on the side of logic, the book of Miller cited in the bibliography. Three other books, not listed in the bibliography, are also natural companions to this material. The book by P. J. Higgins [*Notes on categories and groupoids*, Van Nostrand Reinhold, London, 1971; MR **48** #6288] pursues the applications of complexes to group theory in a more abstract spirit, while the book by H. Zieschang, E. Vogt and H.-D. Coldewey [*Flächen und ebene diskontinuierliche Gruppen*, Lecture Notes in Math., Vol. 122, Springer, Berlin, 1970; MR **41** #6986] develops the same ideas more in the direction of 2-manifolds and Fuchsian groups. Finally, the book by D. L. Johnson [*Presentations of groups*, Cambridge Univ. Press, Cambridge, 1976; MR **53** #623] provides a rich but elementary discussion of many related ideas in a purely group-theoretic spirit."

#3770: **Fichera, Gaetano; Sneider Ludovici, Maria Adelaide**

The second author's name should be **"Sneider, Maria Adelaide"**.

#7087: **Odoni, R. W. K.**

In line −5 " | " should be "/".

#10843: **Lodkin, A. A.**

The author reports that the article contains an inaccurate statement, which is corrected in RŽMat [1975 #4B883].

#14385: **Zini, Elishu**

The author's name should be **"Zini, Elishu"**.

Index for Volume 50

On p. 2411 **"Sneider Ludovici, Maria Adelaide"** should be **"Sneider, Maria Adelaide"**.

Volume **51**

#11118: **Sebestyén, Z.**

Professor G. A. Elliott has pointed out that the paper contains an error: on l.4, p. 212 the series displayed, although convergent, is not shown to converge to the quasi-inverse of x/λ. The author has reduced the problem of Araki and Elliott to the commutative case but in this case it remains an interesting open question.

#14011: **Fisher, B.**

The following is an addendum to the published review:

"A closely related result has been given by S. K. Chatterjea [C. R. Acad. Bulgare Sci. **25** (1972), 727-730; MR **48** #2845]."

Volume **52**

#538: **Neubüser, J.**

The original review contains some inaccurate statements and should be replaced by the following:

"This paper is in the nature of a survey and is devoted to the applications of computers to the computation of groups. By computation of a group is meant a detailed analysis of its structure. The finite group to be studied must be prescribed by a finite set of generators which are either abstract generators with a finite set of defined relations, or elements from the exact representation by matrices or permutations. The author surveys some approaches, known at the time of the writing of the paper under review, to the creation of machine programs for computing the order of groups, the enumeration of its elements and for the determination of the structure of its subgroups."

#3052: **Knebusch, Manfred**

The last ten lines of the review should be replaced by the following:

"Theorem 4.1 states that: Given M, a non-empty subset of A_0^*, then for every unit b in A_0^*, the following are equivalent; (i) $b = \Sigma a_i N(\lambda_i)$ with elements λ_i of A and products a_i of elements of M; (ii) b lies in the subring of A_0 generated by $N(A)$ and M and $\sigma(b) = 1$ for every signature σ of A with $\sigma(M) = \{1\}$.

In the next section, the author gives a characterization of elements of the form $b = \Sigma a_i N(\lambda_i)$, where the a_i are now in M and here it is necessary to use 'semi-signatures'. Also in this case, it is assumed that 2 is a unit in A and the general case is still an open question."

#5575: **Patterson, S. J.**

In the definition of Δ_k replace all δ by ∂. The reference to the reviewer's thesis in line 32 as "[op. cit.]" is incorrect. It should be "[Über das Eigenwortproblem der automorphen Formen in der hyperbolischen Ebene bei Fuchsschen Gruppen Zweiter Art", Dissertation, University of Munich, 1970]".

#6721: ★**Math Lecture Notes from Topology Year.**

In line three, for "Gergory Brumfiel" read "Gregory Brumfiel".

#7936: **Bruter, Claude P.**

The sentence beginning on line six should be replaced by "They are almost identical to an earlier publication by the author [*Éléments de théorie des matroïdes*, Publ. Dép. Math, Univ. Brest, 1970]."

The sentence beginning on line nine should be replaced by "There are several misprints and errors that will be easily recognised by the reader; the theorems and proofs remain true, however."

#7936 *Continued*

The sentence beginning on line 11 should be replaced by "These notes can serve as an introduction to those interested in the basic facts about matroids."

In lines 18-21, the sentence beginning "In Chapter 6 . . ." should be replaced by "In Chapter 7 the fundamental paper by Minty could have been used to greater advantage."

The sentence beginning in line 21 should be replaced by "The close connection between matroids and geometric lattices is mentioned but should have been discussed more fully, in the reviewer's opinion."

#11086: **Vesely, Jiří**

In the displayed equations following line nine "$\int_{B_\tau}$" should read "$\int_{B_t}$" (twice) and "Δ_w" should read "∇_w". In the displayed equation following line 14 "$T =$ " should read "$T\varphi =$ " and "Δ" should read "$\hat{\nabla}$". In line 22 "T is a measure ν_r" should read "$T\varphi(z)$ is a measure ν_z". In line 24 "$Tf = \int_{R^{m+1}} f dV_z$" should read "$Tf(z) = \int_{R^{m+1}} f d\nu_z$".

#11477: **Glicksberg, Irving**

In line eight for "uniform" read "pointwise".

#11970: **Kaĭser, V. V.; Krugljakov, L. A.**

The name of the first author is incorrect. It should be **"Kaĭzer, V. V."**.

#13523: **Markowsky, G.; Rosen, B. K.**

The authors' Theorem 2.7 which was misquoted and incorrectly claimed to be wrong, states that every p.o. set P with a smallest element has a chain-complete extension $\bar{P}$ such that every order preserving map from P to a chain-complete Q extends to a unique map on $\bar{P}$ preserving all suprema of nonempty chains. An extension basis for a chain-complete p.o. set P is a subset B such that P is $\bar{B}$; a chain-complete poset P has an extension basis if and only if every member x of P is the supremum of a directed set consisting of all compact c in P with $c \leq x$. In that case there is exactly one extension basis, the set of all compact elements of P.

#13599: **Hallyburton, John C., Jr.; Brillhart, John**

The paging for the Corrigenda is incorrect. It should be "109-112".

Index for Volume 52

On p. 2476 **"Kaĭser, V. V."** should be **"Kaizer, V. V."**.

#779: **Glicksberg, I.**
The following should be added to the published review:
"R. Burckel has pointed out that this version of Rouché's theorem has appeared earlier [T. Estermann, *Complex numbers and functions*, Athlone Press, London, 1962; Zbl **115**, 60]."

#2567: ★**Logic, algebra and numerical mathematics. Vol. 3, No. 1.**
The title is incorrectly translated; **"mathematical"** should be **"analysis"**.

#2722: **Alpert, Seth R.; Gross, Jonathan L.**
The following is an addendum to the published review:
"As pointed out by J. Zaks [Proc. Seventh Southeastern Conference on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La., 1976), pp. 527-532, Congressus Numerantium, No. XVII, Utilitas Math., Winnipeg, Man., 1976], the conjecture that there exist no planar graphs having twelve vertices of degree five and an odd number n of vertices of degree six (and no other vertices) is due originally to A. M. Hobbs [*Recent progress in combinatorics* (Proc. Third Waterloo Conf. on Combinatorics, 1968), p. 344, Problem 9, Academic Press, New York, 1969; see MR **40** #4128]. It is true precisely for $n = 1$ [B. Grunbaum, *Convex polytopes*, especially p. 272, Theorem 2 (5), Interscience, New York, 1967; MR **37** #2085] in its dual form, as E. Etourneau [*Infinite and finite sets* (Colloq., Keszthely, 1973; dedicated to P. Erdős on his 60th birthday), Vol. II, pp. 645-655, Colloque Math. Soc. Janos Bolyai, Vol. 10, North-Holland, Amsterdam, 1975; MR **52** #158] has found planar graphs as described for $n = 0$ and all $n \geq 2$."

#3026: **Carson, Andrew B.**
Theorem C in the review should read:
"If R is a regular ring of index n, then there is an elementary extension S of R that can be represented as the ring of global sections of a sheaf k over a Boolean space X such that, for any stalk k_x of k, $k_x \cong (F_{1,x})_{n(1)} + \dots + (F_{m,x})_{n(m)}$ for some division rings $F_{i,x}$ and positive integers $m \leq n$ and $n(i) \leq n (1 \leq i \leq m)$, dependent upon x."

#3066: **Dedecker, Paul; Luka, Eugene**
The name of the second author is incorrect. It should be **"Luks, Eugene"**. The review also should be altered to read:
"This paper continues the authors' study of nonabelian cohomology, using a diagram chasing over nonabelian objects; see also their paper [same C. R. **282** (1976), no. 3, Ai, A139-A141; MR **54** #2763]."

#3348: **Poly, Jean-Baptiste**
The reviewer reports that an assertion in the review is incorrect. In general, the homology of an arbitrary closed subset Y of a differentiable manifold X, is not correctly calculated by the complex of currents supported in Y. An example is $X = \mathbf{R}, Y = 0 \cup \{1/n\}, n \in N$, as noted in the author's 1974 thesis (Poitiers). This emphasizes the need for the author's difficult techniques to prove the result when X is real analytic and Y is a closed semi-analytic subset.

#4039: **Kirkor, A.**
In line 13 replace "construction begins with" by "subset Σ consists of". Delete the final sentence of the first paragraph.

#5274: **Feferman, Solomon**
Line three of the review should be altered to read:
"the union of all hyperarithmetic divisible subgroups is hyperarithmetic. This"

#5368: **Hulme, Bernie L.**
In line two "cars" should be "arcs".

#5465: **Blass, Josef**
The following should be added to the end of the review:
"Some of the results in this note are contained in the article by Bernard M. E. Wren ("$y^2 + D = x^5$", Eureka, the Archimedian's journal, October 1973, 37-38)."

#6222: **Sagher, Yoram**
In line six "σ" should be "O".

#6749: **Prizva, G. Ĭ.; Tihomirova, L. V.**
In line three "finite-valued" should be "integer-valued". In lines 11 and 14 "$N_{l,m}^{\alpha,\beta}$" should be "$N_{l,m}^{\alpha,\beta}$".

#7243: **Herman, L.; Marsden, E. L.; Piziak, R.**
In the fifth line of the second column "c" should be "$\mathfrak{c}$".

#7605: **Aczél, J.**
Lines 7-11 should be replaced by :
"minimum value of an exponential mean length of codewords in a uniquely decipherable code is the Rényi entropy divided by the logarithm (base 2) of the number of symbols in the code. Finally, the author states that the arithmetic mean and the exponential mean and only these are quasiarithmetic and additive, and mentions the relevance and the limitation of these properties from the information theoretic point of view."

#7676: **Goldstine, Herman H.**
The review is incorrectly numbered as "7667". It should be "7676".

#7745: **Indermark, Klaus**
In line ten of the third paragraph "$(q_{n_1}, \dots, q_{n_l})$" should be "$(q_{n_1}, \dots, q_{n_t})$".

#8073: **Dalaljan, S. G.**
The diagram on p. 1133 is incomplete and should have been reproduced as shown below:

$$\begin{tikzcd}
 & \mathfrak{C} \arrow[dl] \arrow[dr] \arrow[d] & \\
X' \arrow[dr] & X \arrow[d] & X'' \arrow[dl] \\
 & \mathbf{P}^1 &
\end{tikzcd}$$

#8146: **Ion, Ion D.**
The diagram on p. 1143 is incomplete and should have been reproduced as shown below:

$$\begin{tikzcd}
G \arrow[r] \arrow[d, dashed] & H \\
G' \arrow[ur] & \\
E \arrow[r] & F \arrow[uu]
\end{tikzcd}$$

can be completed to a commutative diagram if and only if there is a proper surjection $G'' \to H$ such that

$$\begin{tikzcd}
G \arrow[r] \arrow[d, dashed] & H \\
G'' \arrow[ur] \arrow[dr, dashed] & \\
 & F \arrow[uu]
\end{tikzcd}$$

#8399: **Roach, F. A.**
In line three "$1 \mid (1/x) + 1 \mid -x + 1 \mid (1/x) - y$" should be "$1 \lfloor (1/x) + 1 \lfloor -x + 1 \lfloor (1/x) - y$".

#9198: **Baladze, D. O.**
In line six "∇_p^K" should be "Δ_p^K".

#9544: **Sapožnikov, P. N.**
In line two "degree m" should be "degree $2m$". In line six "$O(n^{-(l+1)})$" should be "$O(n^{-(m+1)})$". In line eight "is an instance of a general fact" should read "makes more precise the general fact". In line 13 "even biased, is not asymptotically superefficient when" should read "is not more efficient asymptotically if".

#10542: **Anderson, Alan Ross; Belnap, Nuel D., Jr.**
The last sentence of the review should be deleted.

#10559: **Tanaka, Hisao**
The diagram on p. 1477 is incomplete and should have been reproduced as shown below:

$$\begin{tikzcd}
 & & A(\Sigma_1) \arrow[r] & A(\Sigma_2) \arrow[r] & A(\Sigma_3) \arrow[r] & {} \\
A(\Sigma_0) \arrow[r] & A(\Pi_0) = & A(\Pi_1) \arrow[r] \arrow[u] \arrow[ur] & A(\Pi_2) \arrow[r] \arrow[u] \arrow[ur] & A(\Pi_3) \arrow[r] \arrow[u] \arrow[ur] & {}
\end{tikzcd}, \text{ etc.,}$$

Volume 53 *cont.*

#10752: **Abbott, H. L.**
In line eight "F. A. Belirend" should be "F. A. Behrend".

#10819: **Reisner, Gerald Allen**
In the first line of the last paragraph "$(\tilde{H}_i\Sigma;k)$" should be "$\tilde{H}_i(\Sigma;k)$".

#10837: **Schäffer, Juan Jorge**
In line five of the review, replace "$k(X) \leq 1$" by "$k(X) = 1$". Also replace the last sentence of the review by "The author conjectures that $k_n = 2$ for $n = 3, 4, \ldots$ and that if $k(X) = 1$ and $\dim X \geq 3$, then the norm on X is induced by an inner product."

#10924: **Kohno, A. P.**
In line six "a π-solvable group k" should be "a π-solvable subgroup k".

#10925: **Poljakov, L. Ja.; Sementovskiĭ, V. G.**
In line eight "every subgroup" should be "every p-subgroup".

#10930: **Sementovskiĭ, V. G.**
In line three "$K \leq U$" should be "$K \trianglelefteq U$".

#11094b: **Reimenschneider, Oswald**
The author's name is incorrectly spelled. It should be "Riemenschneider, Oswald".

#11243: **Lerner, M. E.; Nevostruev, L. M.**
In line five "$-N$" should be "$+N$".

#11435: **Ditzian, Z.**
In the last line of the second paragraph "$(h)^{\alpha}$" should be "$|h|^{\alpha}$".

#11478: **Kortenska, V. M.**
In the third line of the reviewer's remark "postulates" should be replaced by "considerations".

#11803: **Sahbazov, A. A.**
In the penultimate line of the review "system m" should be "system M".

#12036: **Salinas, David; Nguyen, Dong H.; Southworth, Thomas W.**
In line 12 "subgroup. And . . . " should read "subroutine. In . . . ".

#12898: **Demut, O. [Demuth, O.]; Nemečkova, L.**
In line four "Lebesque" should be "Lebesgue".

#13379: **Higman, D. G.**
The last line of the reviewer's remark should be altered to read "The reviewer has learned that J. Leon and C. Sims (Bull. Amer. Math. Soc., to appear) have proved the existence of G."

#13402: **Šemetkov, L. A.**
In line three "$x \in F$" should be "$x \in G$".

#13406: **Mwene, Benjamin**
In line two "$\subseteq$" should be "$\simeq$".

#13437: **Kalužnin, L. A.; Suščanskiĭ, V. I.**
In lines three, four and six "wreaths" should be "wreath products" and in line 11 "wreath" should be "wreath product".

#13481: **Sultanov, Š. Š.**
In line three "dy" should be "du". In line four of the first paragraph and in line three of the second paragraph "π" should be "Π". In line nine "$(au + b)$" should be "$(au + \bar{b})$".

#13570: **Mutō, Hideo**
In line ten "A. Baerenstein" should be "A. Baernstein".

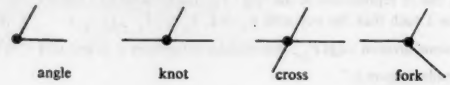
#13601: **Lahtinen, Aatos**
In line four "$w \leqq 0$" should be "$\omega \leqq 0$".

#13606: **Wang, C. Y.**
In line four "he" should be "she".

#13619: **Sadullaev, A.**
In line three "equal modulo 1" should be "of modulus one".

#13976: **Holland, A. S. B.; Sahney, B. N.; Tzimbalario, J.**
In line six add "(1)" after "Fourier series".

#14586: **Ambarcumjan, R. V.**
The diagram on p. 2033 is incomplete and should have been reproduced as shown below:



#14641: **Fedoseev, V. I.; Širokov, F. V.**
The last sentence of the review should be replaced by "It must be pointed out that the arguments are heuristic."

#15183: **Sharma, R. R.**
In line 13 on page 2106 delete "$\cdot 2^{2l+2L-4}$". In line 16 on page 2106 "$(l - M - \nu + q + q')!$" should be "$(l - M - \nu + q - q')!$".

Index for Volume 53
On p. 2223 the entry, "Logic, algebra and numerical mathematics" should be "Logic, algebra and numerical analysis".

Volume 54

#57: **Brady, Ross T.**
On page 14 several of the tables have incomplete artwork and should be reproduced as follows.

The tables following line two:

$\sim$	
1	0
0	1
n	n

&	1	0	n
1	1	0	n
0	0	0	n
n	n	n	n.

The table following paragraph three:

$\vee$	1	0	n
1	1	1	1
0	1	0	0
n	1	0	n

#57 *Continued*
The table following paragraph five:

$\rightarrow$	1	0	n
1	1	0	n
0	1	1	n
n	1	1	1.

The table following paragraph six:

$\supset$	1	0	n
1	1	0	n
0	1	1	1
n	1	1	1.

Volume **54** *cont.*

#71: **Hájek, Petr**
In the italic line of the title "*Lázneč*" should be "*Lázně*".

#72: **Buchholz, W.**
In line nine on p. 17 "$\xi \in 0_n$" should be "$\xi \in O_n$".

#216: **Hoggatt, V. E., Jr.; Bicknell, Marjorie**
In line two "$F_{2^i}^{-1}$" should be "$F_{2^i}^{-1}$".

#219: **Lucht, Lutz**
In line five "f_1" should be "f_l".

#259: **Kano, Takeshi**
In line two "n^{α}" should be "n^{α}".

#290: **Ribenboim, P.**
In line seven "148-52" should be "148-152".

#323: **Tjurin, A. N.**
The diagram on p. 53 is incomplete and should be reproduced as shown below:

$$\begin{tikzcd} J(F) \arrow[r] \arrow[d, "\bullet"'] \arrow[dr, phantom, "\approx"] & \mathrm{Pr}(i) \subset J(F) \arrow[d, "\bullet"] \arrow[dl] \\ J(X) \arrow[r, "\alpha"] & J(X) \end{tikzcd}$$

#388: **Howlett, R. B.**
At the end of the review add the following sentence:
"Kilmoyer works with the adjoint Chevalley group while Howlett's arguments apply to any finite group with split *BN*-pair."

#514: **Veršik, A. M.**
In the title a space should be inserted between "**A**" and "**device**".

#733: **Li, Ok Yŏn**
The name of the journal under review is incorrect. It should be "*Su-hak kwa Mul-li*". It should also be noted after the title that the article is in Korean.

#895: **Farahat, J.**
In the last line of the second paragraph "$\frac{1}{2}p$" should be "$1/2p$".

#1012: **Melik-Adamjan, F. È.**
In line four "$\mathcal{L}$" should be "L" and in line five "H" should be "A".

#1116: **Laugwitz, Detlef**
"|" should be inserted between "$(x,\dot{x})$" and "/".

#1234: **Buoncristiano, S.; Rourke, C. P.; Sanderson, B. J.**
In line four of the second paragraph "$E \xrightarrow{f} |K|$" should be "$E \xrightarrow{\xi} |K|$". The diagram in the second paragraph is incomplete and should be reproduced as shown below:

$$\begin{tikzcd} E^* \arrow[r] \arrow[d, "\xi^*"'] \arrow[dr, "\theta"] & E \arrow[d, "\xi"] \\ M \arrow[r, "i"] & K. \end{tikzcd}$$

#1262: **Kričever, I. M.**
In line 16 "$((-\vartheta_{G_s}))$" should be "$((\dot{-}\vartheta_s)_G)$".

#1287: **Lichnerowicz, André**
In line 16 "MR 17" should be "MR 47". In the second line of the last paragraph "infinité-simaux" should be "infinitésimaux".

#1319b: **Kashiwara, Masaki; Kawai, Takahiro**
In line 11 "$\mathcal{D}_M{}^I$" should be "$\mathcal{D}_M^f$".

#1365: **Kurčenko, A. A. [Kurčenko, O. O.]**
In the first line on p. 201 "$o(l/\ln i)$" should be "$o(1/\ln i)$".

#1461: **Zerakidze, Z. S.; Kalandarišvili, S. G.**
In line two "$\mathbf{R}^n$" should be "$\mathbf{R}^N$".

#1613: **Ibragimov, V. R.**
In line five "$0(h^9)$" should be "$O(h^9)$".

#1843: **Hristov, Hristo V.**
In line three "a steady-state flow" should be "a non-steady state flow".

#1989: **Kaup, D. J.**
In the ninth line of the second column "$\psi_K \equiv \psi(\lambda_K) > \bar{\psi}_K \equiv \bar{\psi}(\lambda_K)$" should be "$\psi_K \equiv \psi(\lambda_K)$, $\bar{\psi}_K \equiv \bar{\psi}(\lambda_K)$; "$\langle \psi_K 1 \bar{\psi}_L \rangle$" should be "$\langle \psi_K, \bar{\psi}_L \rangle$".

#2453: **Nadel, Mark E.**
In line two "$M \in A$ be a structure, then" should be "M be a structure in A. Then".

#2483: **Kleitman, Daniel J.; Rothschild, Bruce R. [Rothschild, Bruce L.]; Spencer, Joel H.**
The bracketed form of the second author's name is incorrect and should be deleted.

#2771: **Dempwolff, Ulrich**
In line four "(a)$G_\alpha - L_2(q)$" should be "(a)$G_\alpha \simeq L_2(q)$".

#2794: **Aleev, R. Ž.**
The following reference should be added to the end of the second paragraph:
"A similar result has been obtained by A. S. Kondrat'ev [Sibirsk. Mat. Ž. **17** (1976), 85-90; MR **53** #8229]."

#2802: **Sidki, Said**
In lines 13 and 15 "$D \lhd G$" should be "$D \ntriangleleft G$".

#2828: **Leonard, Henry S., Jr.**
In the penultimate line of the first paragraph "$G/Z(G) \simeq \mathrm{PSL}(2,q)$" should be "$G/Z(G) \simeq \mathrm{PSL}(2,q)$".

#2836: **Gut, Arthur**
In line three "$N \xrightarrow{\mu} G$" should be "$N \rightarrowtail^{\mu} G$".

#2872: **Guichardet, Alain**
In line three "$G \in \hat{G}$" should be "$U \in \hat{G}$".

#2955: **Pommerenke, Ch.**
In line 14 of the first paragraph and in line three of the third paragraph "γ_0" should be "$\gamma 0$".

#3038: **Debiard, Amédée**
In line −5 "finite" should be "fine".

#4337: **Agranovich, M. S. [Agranovič, M. S.]**
The paging for the reference cited in line four is incorrectly given as "25-39". It should be "25-30".

#4755: **Johnson, C. D.**
The diagram at the end of the review is incomplete. It should be reproduced as shown below:

$$\left[\begin{array}{c|c} C+GL & GH \\ \hline JL & JH \end{array}\right] = m+s.$$

#6826: **Gerčik, V. M.**
In line 14 for "constructed" read "constant".

TRANSLITERATION OF CYRILLIC

Russian Letter Cap. Ital.	Mathematical Reviews; Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А *а*	a	a	a	a	a	a	a
Б *б*	b	b	b	b	b	b	b
В *в*	v	v	v	v	v	v	v
Г *г*	g	g	g	g	g	g	g
Д *д*	d	d	d	d	d	d	d
Е *е*	e	e	e	e	e	e	é
Ё *ё*	e	ē	e	ē	ē	ē	ē
Ж *ж*	ž	zh	zh	zh	z͡h	ž	ž
З *з*	z	z	z	z	z	z	z
И *и*	i	i	i	i	i	i	i
Й *й*	ĭ	j	i	ĭ	ĭ	j	j
К *к*	k	k	k	k	k	k	k
Л *л*	l	l	l	l	l	l	l
М *м*	m	m	m	m	m	m	m
Н *н*	n	n	n	n	n	n	n
О *о*	o	o	o	o	o	o	o
П *п*	p	p	p	p	p	p	p
Р *р*	r	r	r	r	r	r	r
С *с*	s	s	s	s	s	s	s
Т *т*	t	t	t	t	t	t	t
У *у*	u	u	u	u	u	u	u
Ф *ф*	f	f	f	f	f	f	f
Х *х*	h	kh	kh	kh	k͡h	kh	h
Ц *ц*	c	c	ts	ts	t͡s	c	c
Ч *ч*	č	ch	ch	ch	c͡h	č	č
Ш *ш*	š	sh	sh	sh	s͡h	š	š
Щ *щ*	šč	shch	shch	shch	s͡hch	šč	šč
Ъ *ъ*	″			ʻ	″	ʻ	
Ы *ы*	y	y	y	ȳ	y	y	y
Ь *ь*	′	′		′	′	′	′
Э *э*	è	e	e	é	é	è	e
Ю *ю*	ju	ju	yu	yu	i͡u	ju	ú
Я *я*	ja	ja	ya	ya	i͡a	ja	á

Other *Mathematical Reviews* conventions are as follows:

The Ukrainian І, і are transliterated Ĭ, ĭ, respectively.
The Ukrainian Ї, ї are reproduced without change.
The Ukrainian Є, є are transliterated Ē, ē.
The Serbian Ђ, ђ are transliterated Đ, đ, respectively.
The Serbian Ћ, ћ are transliterated Ć, ć; the Serbian Џ, џ are transliterated Dž, dž.

TRANSLITERATIONS OF CYRILLIC

Russian Letter Cap. Lowc.	Multinational Business Letterhead for Worldwide	Turkish Supplier	Arabic Machinery Factory	Greece Athens	U.S. Labor Organizer	Czech Glass Factory	Journal of Brussels Legal
А а	1	a	0	1	0	0	4
Б б	5	b	0	b	0	5	3
В в	7	v	7	7	7	7	7
Г г	2	g	2	2	2	2	2
Д д	4	d	2	d	0	5	4
Е е	3	e	3	3	3	3	3
Ё ё	9	e	3	1	3	3	4
Ж ж	3	zh	4h	4h	4h	4	3
З з	3	z	3	3	3	3	3
И и	1	i	1	1	1	1	1
Й й	1	y	1	1	1	1	1
К к	6	k	2	2	2	2	2
Л л	1	l	1	1	1	1	1
М м	0	m	4h	m	4	5	5
Н н	0	n	0	0	0	0	0
О о	0	o	0	0	0	0	0
П п	7	p	7	7	7	7	7
Р р	7	r	7	7	7	7	7
С с	8	s	8	8	8	8	8
Т т	1	t	1	1	1	1	1
У у	0	u	0	0	0	0	0
Ф ф	7	f	7	7	7	7	7
Х х	8	h	4h	8h	4h	8	8
Ц ц	2	c	2	2	2	2	2
Ч ч	0	ch	4h	4h	4h	4	4
Ш ш	4	sh	4h	4h	4h	4	4
Щ щ	4h	sch	4h	4h	4h	4h	4h
Ъ ъ	*	*	*	*	*	*	*
Ы ы	7	y	7	Y	7	7	7
Ь ь	*	*	*	*	*	*	*
Э э	6	e	6	4	6	4	6
Ю ю	10	iu	4u	4u	4u	4u	4
Я я	9	ia	4a	7a	4a	4	4

Other Multinational Business Letterhead for Worldwide:

The Digraphs Ц ц are transcribed Y ? (Czechoslovakia)

The Digraphs Ч ч are transcribed C (Greece)

The Digraphs Ш ш are transcribed S (Turkish)

The Digraphs Щ щ are transcribed SH (Arabic)

The Digraphs Ю ю are transcribed U (Czechoslovakia) or IU (Greece)

The Digraphs Я я are transcribed IA (Czechoslovakia) or IA (Greece)

65
13